

EUROPEAN CONGRESS AND EXHIBITION ON ADVANCED MATERIALS AND PROCESSES

Final Program

17-22 SEPTEMBER 2017 THESSALONIKI, GREECE

CONFERENCE CULTURAL CENTER "Thessaloniki Concert Hall"

www.euromat2017.fems.eu

E U R O M A T 2 0 1 7







Thessaloniki

Established in the 4th c. BC, Thessaloniki has always maintained its urban character and remained a civic center and hub of the region. The city's centuries-old multicultural history has been associated with great empires, such as the Roman, Byzantine and Ottoman. The town was also greatly influenced by many ethnic and religious groups (Jews, Latins, Armenians and others) as well as Greeks from Constantinople, Pontus [modern-day northeastern Turkey] and Asia Minor [a.k.a. Anatolia]. The numerous monuments, dating to various historical periods, coexist in a singular and charming way and manifest Thessaloniki's historical multicultural and cosmopolitan nature. Nowadays, the historic capital -by right- of Macedonia, the land of Alexander the Great, has evolved into a modern and particularly charming metropolis. A multitude of monuments and cultural assets and the town's traditional ways exist in harmony with modern trends and high quality infrastructure, the relaxed atmosphere, the spirit of hospitality, the vitality of the locals – particularly the young – setting the pace of town life, the diversity of artistic events, the long list of choices for entertainment, the exceptional culinary tradition, and the fresh breezes coming from the seafront and the coolness of the northwest wind, Vardaris. Thessaloniki is situated at the heart of an extensive area of incomparable historical monuments and natural assets and provides the opportunity to visit archaeological sites known the world over (Ancient Pella, Vergina, Dion, Petralona Cave and so on), to areas of exquisite nature (river deltas, lakes, Mt Olympus), to the monastic state of Agion Oros [the Holy Mountain better known as Mount Athos] as well as to Halkidiki, a famous tourist destination. Of course, there is always an opportunity for sports (swimming, skiing, golf and so on) or to indulge in health tourism (hot springs and spas). In short, Thessaloniki is a city that caters to even the most demanding needs vear round.

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Program at a glance

| TIME | SUNDAY 17 th | TIME | MONDAY 18 th | TUESDAY 19 th | WEDNESDAY 20 th | THURSDAY 21st | FRIDAY 22 nd |
|-------------|--|--------------------------------|--|--|---|--|-----------------------------------|
| 08:00 | | 08:00 - 13:00 | REGISTRATION/ CONFERENCE SECRETARIAT | REGISTRATION/ CONFERENCE SECRETARIAT | REGISTRATION/ CONFERENCE SECRETARIAT | REGISTRATION/ CONFERENCE SECRETARIAT | |
| | | 09:00 - 15:00 15:00 - 19:30 | COMMERCIAL EXHIBITION | COMMERCIAL EXHIBITION | COMMERCIAL EXHIBITION | COMMERCIAL EXHIBITION | COMMERCIAL EXHIBITION |
| 11:00-19:30 | REGISTRATION/ CONFERENCE SECRETARIAT | 09:00 - 10:30 | OPENING/ PLENARIES AM1 | PLENARIES AM1 | PLENARIES AM1 | PLENARIES AM1 | PLENARIES AM1 |
| 09:00-13:00 | TUTORIALS | 10:30 - 11:00 | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK |
| | | 11:00 - 13:00 | AM 2 (22 PARALLEL SESSIONS) | AM 2 (22 PARALLEL SESSIONS) | AM 2 (22 PARALLEL SESSIONS) MATCHMAKING EVENT | AM 2 (22 PARALLEL SESSIONS) | AM 2 (22 PARALLEL SESSIONS) |
| 13:00-14:30 | LUNCH | 13:00 - 15:00 | G3 | G1 POSTER SESSION 1 | G2 | G4 POSTER SESSION 1 | LUNCH |
| | | 13:00 - 15:00 | LUNCH | LUNCH | LUNCH | LUNCH | LUNCH |
| 14:30-18:30 | TUTORIALS | 15:00 - 17:00 | PM1 (22 PARALLEL SESSIONS) | PM1 (22 PARALLEL SESSIONS) | PM1 (22 PARALLEL SESSIONS) MATCHMAKING EVENT | PM1 (22 PARALLEL SESSIONS) | PM1 (22 PARALLEL SESSIONS) |
| | | 15:00 - 19:30 | REGISTRATION/ CONFERENCE SECRETARIAT | REGISTRATION/ CONFERENCE SECRETARIAT | REGISTRATION/ CONFERENCE SECRETARIAT | REGISTRATION/ CONFERENCE SECRETARIAT | |
| | | 17:00 - 17:30 | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | CLOSING CEREMONY |
| | | 17:00 - 19:30 | PM2 (22 PARALLEL SESSIONS) | PM2 (22 PARALLEL SESSIONS) | PM2 (22 PARALLEL SESSIONS) | PM2 (22 PARALLEL SESSIONS) | |
| 20:00 | WELCOME RECEPTION | 20:00 | | CULTURAL / SOCIAL EVENT | | | |
| | | 21:00 | | | CONGRESS DINNER | | |

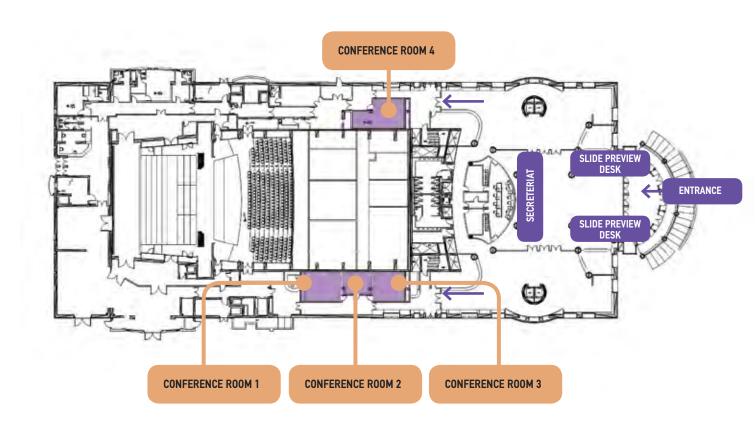
| | MOND | MONDAY 18 SEPTEMBER TUESDAY 19 SEPTEMBER | | WEDNE | SDAY 20 SEP | TEMBER | THURS | DAY 21 SEP | TEMBER | FRIDAY 22 | SEPTEMBER | | | |
|-----------|----------------------|--|----------------|---|--------------|--------------------|--------------|-------------------------|---------------|-------------|------------|------------|-------------|--------------|
| | AM1 Opening Ceremony | | | AM1 | | | AM1 | | | AM1 | | A | M1 | |
| | | | Prof. Anna | a Fontcube | rta i Morral | Prof. | Oliver Gutf | leisch | Pr | of. John Åg | ren | Prof. Luis | Liz-Marzán | |
| | Prof. (FE | Doros Theo MS EMM 20 | odorou 017) | Prof. Andrés-Fabián Lasagni (FEMS MSTP 2017) | | n Lasagni (017) | Prof. (FE | Thierry Ch MS MIM 20 | artier 17) | Prof. S | Spyros Pan | telakis | Prof. Dimit | ris Lagoudas |
| | AM2 | PM1 | PM2 | AM2 | PM1 | PM2 | AM2 | PM1 | PM2 | AM2 | PM1 | PM2 | AM2 | PM1 |
| A1 | | | | | | | | | | | | A1 | A1 | A1 |
| | | | | | | | | | | | | | | A1 |
| A2 | | | | | | | | A2 | A2 | A2 | A2 | | | |
| А3 | A3 | А3 | А3 | А3 | | | | | | | | | | |
| A5 | A5 | A5 | A5 | A5 | A 5 | A5 | A5 | A5 | A5 | | | | | |
| A6 | | | | | | | | | | | | A6 | A6 | A6 |
| A7 | | | A7 | | A 7 | A7 | A7 | A7 | A7 | A7 | A7 | A7 | A7 | |
| A8 | A8 | A8 | A8 | A8 | | | | | | | | | | |
| А9 | | | | | | | | | | | | А9 | А9 | А9 |
| B1 | | | | B1 | B1 | B1 | B1 | B1 | B1 | B1 | B1 | B1 | B1 | B1 |
| ы | | | | | | B1 | | | | | | | | |
| B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 | B2 | |
| В3 | В3 | В3 | В3 | В3 | В3 | В3 | В3 | В3 | В3 | В3 | | | | |
| B4 | | | | | | | | | | B4 | B4 | B4 | В4 | В4 |
| В5 | B5 | B5 | B5 | B5 | B5 | | | | | | | | | |
| В6 | | | | | B6 | B6 | В6 | | | | | | | |
| В7 | | | | | | | | B7 | B7 | В7 | В7 | B7 | В7 | В7 |
| B8 | | | | | | | B8 | B8 | B8 | B8 | B8 | B8 | | |
| В9 | | | | | | | | | | В9 | В9 | В9 | | |
| B10 | B10 | B10 | B10 | B10 | B10 | B10 | B10 | B10 | B10 | | B10 | | | |
| B11 | B11 | B11 | B11 | B11 | B11 | B11 | B11 | B11 | B11 | B11 | | | | |
| C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 | C1 |
| C2 | C2 | C2 | C2 | C2 | C2 | | | | | | | | | |
| С3 | | | | | | | | | | | C3 | СЗ | C3 | С3 |
| C4 | | | | | | | C4 | C4 | C4 | C4 | C4 | C4 | C4 | C4 |
| | | | | | | | | | | | | C5 | C5 | C5 |
| C5 | | | | | | | | | | | | | | C5 |
| C6 | C6 | C6 | C6 | C6 | C6 | | | | | | • | | | |
| C7 | | | | | | C7 | | | | | | | | |
| C8 | | | | | | | | | | C8 | C8 | C8 | C8 | C8 |
| C9 | | | | | | | | | | С9 | C9 | C9 | С9 | С9 |
| C10 | | | | | | | C10 | C10 | C10 | C10 | C10 | C10 | C10 | C10 |
| C11 | | | | | | | | | | C11 | C11 | C11 | C11 | C11 |

| | MONE | AY 18 SEPTI | EMBER | TUESI | DAY 19 SEPT | EMBER | WEDNE | SDAY 20 SEP | TEMBER | THURS | DAY 21 SEP | ГЕМВЕК | FRIDAY 22 | SEPTEMBER |
|-----------|----------------------|--|--|--------------|-------------------------|--|-------|--|--------|-------|------------|------------|-----------|-----------|
| | AM1 Opening Ceremony | | | AM1 | | | AM1 | | | AM1 | | A | M1 | |
| | | | Opening Ceremony Prof. Anna Fontcuberta i Morral | | Prof. | Prof. Oliver Gutfleisch Prof. Thierry Chartier (FEMS MIM 2017) | | Prof. John Ågren Prof. Spyros Pantelakis | | | Prof. Luis | Liz-Marzán | | |
| | Prof. (FE | Prof. Doros Theodorou (FEMS EMM 2017) Prof. Andrés-Fabián Lasagni (FEMS MSTP 2017) | | Prof. (Fl | Prof. Dimitris Lagoudas | | | | | | | | | |
| | AM2 | PM1 | PM2 | AM2 | PM1 | PM2 | AM2 | PM1 | PM2 | AM2 | PM1 | PM2 | AM2 | PM1 |
| D1 | | | | D1 | D1 | D1 | D1 | D1 | D1 | D1 | D1 | D1 | D1 | D1 |
| D2 | D2 | D2 | D2 | D2 | D2 | D2 | D2 | D2 | D2 | D2 | D2 | | | |
| D3 | | | | | | | D3 | D3 | D3 | D3 | | | | |
| D4 | D4 | D4 | D4 | D4 | D4 | D4 | D4 | D4 | D4 | | | | | |
| D5 | | | | | | | | | | | D5 | D5 | D5 | |
| D6 | | | | | | | | | | _ | | | D6 | D6 |
| D8 | | | | | | | D8 | D8 | D8 | D8 | D8 | D8 | D8 | |
| D9 | D9 | D9 | D9 | D9 | D9 | D9 | D9 | D9 | D9 | | | | | |
| D10 | | | | | | | D10 | D10 | D10 | D10 | D10 | D10 | D10 | D10 |
| E1 | E1 | E1 | E1 | E1 | E1 | E1 | | | | | | | | |
| E2 | E2 | E2 | E2 | E2 | E2 | E2 | E2 | | | | | | | |
| E3 | E3 | E3 | E3 | E3 | E3 | E3 | E3 | E3 | E3 | | | | | |
| E4 | | | | | | E4 | E4 | E4 | E4 | E4 | | | | |
| E6 | | | | | | | | | | E6 | E6 | E6 | E6 | E6 |
| F1 | F1 | F1 | F1 | F1 | F1 | F1 | _ | | | | | | | |
| F2 | | | | | | | F2 | F2 | | | | | | |
| F3 | | | | | | | | | F3 | F3 | F3 | | | |
| F4 | F4 | F4 | F4 | | | | | | | | | | | |
| F5 | | | | | | | | | | | | | F5 | |
| F6 | | | | | | | | | | | F6 | F6 | F6 | F6 |
| G1 | | | | | 31 | | | | | | | | | |
| G2 | | | | | | | (| G2 | | | | | | |
| G3 | G | 3 | | | | | | | | | | | | |
| G4 | | | | | | | | | | 0 | 64 | | | |
| H1 | H1 | H1 | Н1 | H1 | H1 | Н1 | | | | | | | | |
| H2 | H2 | H2 | H2 | H2 | H2 | | | | | | | | | |
| Н3 | Н3 | Н3 | | | | | | | | | | | | |

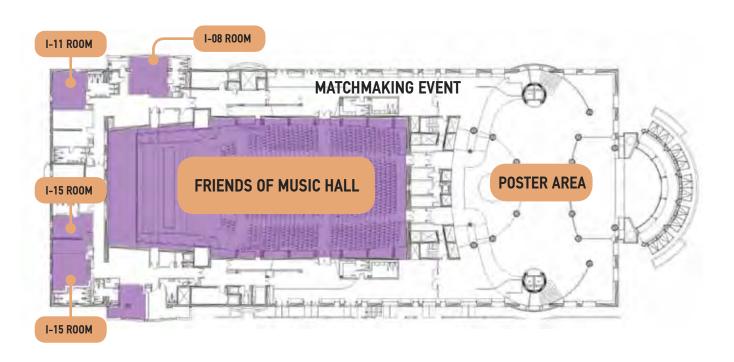
| | TIME: 13:00-15:00 | ROOM: Foyer, E1/M1 | | TIME: 13:00-15:00 | ROOM: Foyer, E1/M1 |
|----------------|----------------------------|---------------------------------|------------------|-------------------|--------------------|
| POSTER SESSION | l Tuesday, Se _l | otember 19 th , 2017 | POSTER SESSION I | I Thursday, Se | ptember 21st, 2017 |
| А3 | C1-I | F1 | A1 | C1-II | E4 |
| A5 | C2 | F4 | A2 | СЗ | E6 |
| A6-I | C6 | H1 | A6-II | C4 | F2 |
| A7-I | D1 | H2 | A7-II | C5 | F3 |
| A8 | D2 | Н3 | А9 | C8 | F5 |
| B2 | D4 | G1 | B1 | С9 | F6 |
| B3 | D10-I | G2 | B4 | C10 | G2 |
| B5 | E1 | | В7 | C11 | |
| В6 | E2 | | B8 | D3 | |
| B10 | E3 | | В9 | D5 | |
| B11 | | | D8 | D6 | |
| | | | D10-II | | |
| | | | | | |



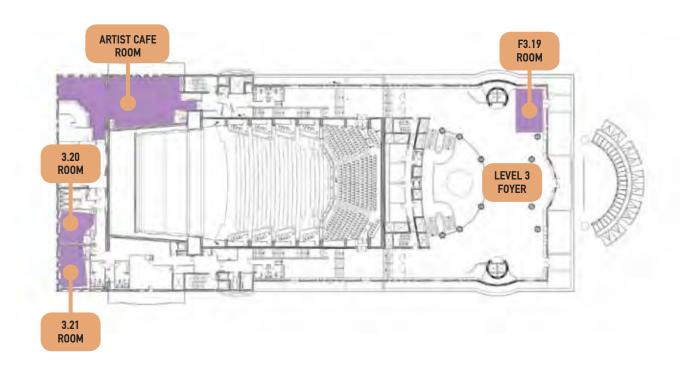
M1 building - level 0



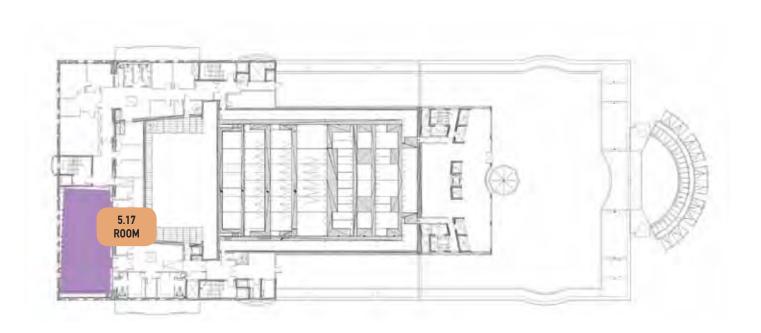
M1 building - level 1



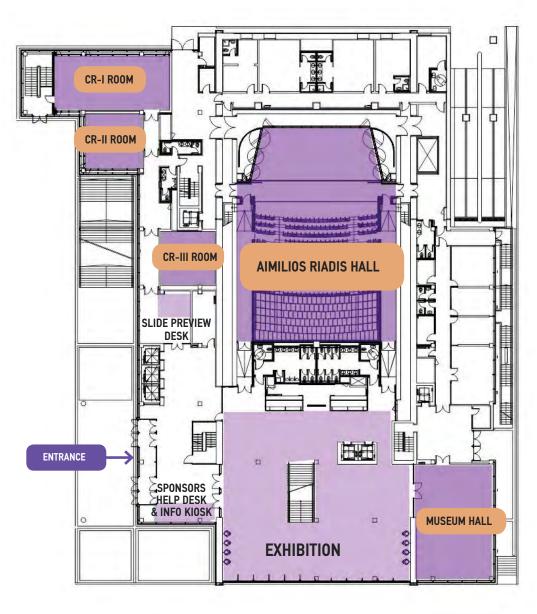
M1 building - level 3



M1 building - level 5

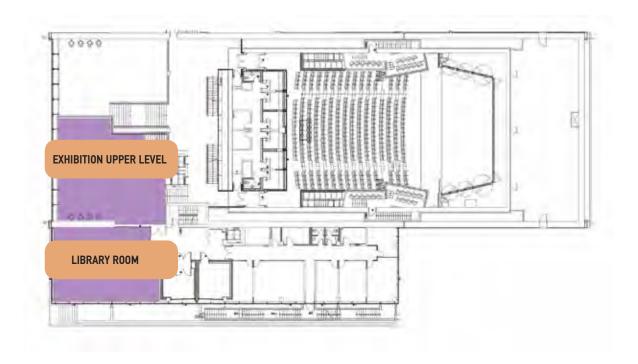


M2 building - level 1

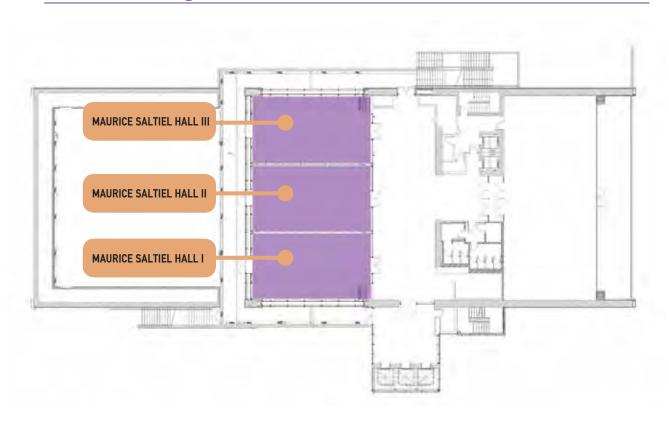


M2 building — level -1 Moysa Hall

M2 building - level 2



M2 building - level 5



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Co-chair

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Welcome letter

Dear Delegate,

It is our great pleasure to personally welcome you to EUROMAT 2017 in Thessaloniki, the beautiful capital of Macedonia Prefecture in Northern Greece. In the year FEMS (The Federation of European Materials Societies) celebrates its 30th Anniversary, this is the 15th conference in the series of EUROMAT conferences, which are organised under the auspices of FEMS every two years since 1989. These conferences are well recognised internationally as the prime venue in Europe for the gathering of a wide community of academics and industrialists who are active in the field of Materials Science and Engineering (MSE) in Europe and around the world. The EUROMAT 2017 conference is co-organised by two of the 27 FEMS member societies, namely the Hellenic Metallurgical Society (HMS) and the Hellenic Society of the Science and Technology of the Condensed Matter (HSSTCM) both based in Greece.

The conference comprises 57 symposia grouped into 8 areas seven of which cover Functional and Structural Materials, Processing, Characterisation and Modelling, Energy and Environment, Biomaterials and Healthcare, Raw Materials and the eighth that is specifically dedicated to Education and Technology Transfer. All these areas are of great strategic importance for the future and the development of Materials Science and Engineering (MSE). Four topics were selected by The Minerals, Metals and Materials Society – TMS to be organised jointly by TMS and FEMS. This co-sponsoring refers to an agreement between the two societies to explore future cooperative ventures in the organisation of their respective conferences on both sides of the Atlantic Ocean. We look forward to continuing and strengthening this collaboration in future EUROMATs. As part of a reciprocal arrangement FEMS will be organising Symposia at TMS2018 in Phoenix, Arizona. We are grateful to the members of the scientific committee for their perseverance and devotedness to putting in place an outstanding list of symposia for each area of the conference.

Around 2725 abstracts were received from 65 countries by the closure of the deadline for abstract submission. 20% of the abstracts were submitted from outside Europe. Owing to the large number of contributions the committee decided to organise 22 parallel sessions, and to increase the number of oral presentations by 20% per session. This has led to a very intense programme covering a wide scope of subjects in which most recent advances in MST are highlighted.

Strong collaboration with national and international industrial, publishing, and commercial partners is what keeps MSE moving forward worldwide. We welcome the support of EUROMAT 2017 by 40 sponsors and exhibitors, and we are grateful to them for offering educational, networking and promotional opportunities for the conference delegates.

The organisation of the final programme involved the dedicated work of more than 200 experts in different fields that have acted as symposium organisers and co-organisers. On behalf of all the participants of the conference we express our sincere thanks to all of them for their hard work, leadership, commitment and enthusiasm to honour their tasks. Without their valuable commitment to deal with the high number of abstracts, the straightforward organization of the scientific programme would not have been possible.

The conference programme integrates approximately 1,850 oral presentations and 875 posters, the latter presented during two poster sessions. The conference starts on Sunday afternoon with 4 selected tutorials that address recent developments in emerging fields in MSE and start-ups. We have also organised what we hope will be an enjoyable social programme to accompany this conference to give you a flavour of Greece.

Following the practice of EUROMAT conferences, no general proceedings will be published for the whole conference. Some symposia organizers have arranged to have the papers of their symposium, or a sub-set of them, published after the conference in a special issue of a journal. The conference information including the titles, authors and abstracts submitted to the conference can be found on the USB stick within your delegate pack.

The programme is particularly highlighted by nine plenary lectures given by renowned researchers from the MSE community. The first plenary lecture will be given during the Monday opening session by Professor Doros Theodorou, who is the recipient of the FEMS European Materials Medal 2017. This is a recognition FEMS makes every year to some of the most active researchers in MSE. Five other senior and young scientists awarded last year with the Materials Innovation Prize, the Materials Science and Technology Prize, and two FEMS lecturers' prizes will also be given the opportunity to make relevant presentations at the conference.

All the tasks associated with such a large and complex conference are run under the direction of the managing committee. We are grateful for their continuous support.

We would like to thank each one of you for attending EUROMAT 2017 and bringing your research to the attention of the MST community. Throughout this conference, we ask you to stay engaged and proactive.

Our personal respect and thanks goes out to all of you.

Enjoy the conference, enjoy Thessaloniki.

Panos Tsakiropoulos (Chair, Scientific Committee)

Anna Zervaki (Chair, Managing Committee) Brett Suddell (FEMS President)

est Side

FEMS Awards



FEMS European Materials Medal 2017 Prof. Doros N. Theodorou National Technical University of Athens, GR

Doros Theodorou holds a Diploma from the National Technical University of Athens, NTUA (1982), M.S. (1983) and Ph.D. (1985) degrees from M.I.T., all in Chemical Engineering.

He started his academic career at the University of California, Berkeley, where he became full professor in 1994. In 1995 he relocated to Greece, where he taught at the University of Patras and collaborated with ICE/HT-FORTH and NCSR "Demokritos". Since 2002 he has been professor and director of the Computational Materials Science and Engineering group at NTUA. Professor Doros Theodorou is known for his pioneering work in developing new statistical mechanics-based molecular and multiscale simulation methods for the calculation of thermodynamic, structural, mechanical, rheological, interfacial, and permeability properties of polymeric materials, as well as of sorption and diffusion in zeolites.

Recognitions he has received include the NSF Presidential Young Investigator Award (1988-1992), the Science Award of the Bodossakis Foundation in Chemistry (1996), the Danckwerts Lectureship of the AIChE (2006), the D. Medema Award of the Dutch PTN (2009), the John M. Prausnitz award of PPEPPD (2016), and the AIChE Institute Lecture (2016). In 2015 he was elected member of the U.S. National Academy of Engineering.



FEMS Materials Innovation Medal 2017 Dr. Thierry Chartier Science des Procédés Céramiques et de Traitements de Surface (SPCTS), Limoges, FR

Thierry Chartier is Research Director and Head of the "Science of Ceramic Processes and Surface Treatments" CNRS Laboratory, Limoges, France. He received an engineers' degree from ENSCI, and an MSc in Ceramic Materials and Surface Treatments from the Univ. of Limoges (1982). He obtained his Ph.D. in 1985 concerning the relationship between elaboration-microstructure and properties of SiAlON.

His main research interests are ceramic processing with the understanding of fundamental mechanisms that take place during materials transformations. His current research concerns additive manufacturing which opened new additive routes in ceramics and lead to the creation of two start-ups (Ceradrop and 3Dceram). These processing developments have applications in healthcare, SOFC and catalytic membranes and a common lab has been established between CNRS and Air Liquide to pursue this research.

T. Chartier is the author/co-author of 170 reviewed papers and 38 patents. He was chairman of the 13th conference of the ECerS held in Limoges in 2013. He is member of the World Academy of Ceramics, Fellow of the European Ceramic Society. He received the "Chaudron" award from SF2M (2011) and the JECS Trust Award (2015).



FEMS Materials Science and Technology Prize 2017 Prof. Andrés-Fabiàn Lasagni Technische Universität Dresden, DE

Andrés F. Lasagni received his M.S. degree in 2002 in Chemical Engineering from Comahue National University (Argentina). From 2003 to 2005 he carried out his PhD at the Universität des Saarlandes (Germany) and in 2007-2008 he conducted a postdoctoral stay at the Georgia Institute of Technology and the University of Michigan. Since 2008 he was group leader at the Fraunhofer IWS and since 2012 is professor at the Technische Universität Dresden (Germany). Andrés Lasagni is author and coauthor of more than 150 publications and has been awarded several prizes including the German High Tech Champion in Photovoltaics 2011 from the Ministry of Education and Research (BMBF), the Green Photonic Award 2015 from the International Society for Optics and Photonics (SPIE), the Masing-Gedächtnispreis 2012 from the German Society for Materials Science (DGM) and Fritz-Grasenick-Prize from the Austrian Society for Electron Microscopy. Recently, he has received the Reinhart-Koselleck Grant (1.3 M€) from the German Research Foundation (DFG) to enable outstanding researchers to pursue exceptionally innovative or higher-risk projects.



TMS – FEMS Young Leader International Scholar Program Dr. Mohsen Asle Zaeem Missouri University of Science and Technology, Rolla USA

Mohsen Asle Zaeem is the Roberta and G. Robert Couch Assistant Professor of Materials Science & Engineering at Missouri University of Science & Technology. Dr. Zaeem received his B.S. (2003) and M.S. (2006) in Mechanical Engineering from Shiraz University, Iran, and his Ph.D. in Mechanical Engineering from the School of Mechanical and Materials Engineering at Washington State University (2010).

Dr. Zaeem has published more than 45 peer-reviewed journal articles, and he is currently serving as an editor of the Journal of Metals, and he is also a member of the editorial board of Mathematical Problems in Engineering and International Journal of Materials Engineering and Technology. Dr. Zaeem is a member of different technical committees of TMS, including Computational Materials Science and Engineering, Solidification, Phase Transformation, and Young Professionals Committees.

Dr. Zaeem is the recipient of 2016 Faculty Research Excellence Award of Missouri S&T, 2016 Certificate of Highly Cited Research in Computational Materials Science (Elsevier), 2015 Certificate of Excellence in Reviewing from Acta Materialia, 2015 TMS Young Leader Professional Development Award, 2015 Junior Faculty Award from Mines and Metallurgy Academy, and 2015 ACS New Investigator Award.



FEMS Lecturer Award for Excellence in Materials Science and Engineering 2016-2017 Prof. Jonathan Cormier ISAE-ENSMA, Chasseneuil, FR

Jonathan Cormier, associate professor at ISAE-ENSMA (Futuroscope-Chasseneuil, France) since 2007, has an aeronautical engineering degree from ISAE-ENSMA, with specialization in mechanics of materials. He obtained his PhD degree in 2006 from the University of Poitiers on the non-isothermal creep behavior of a Ni-based single crystal superalloy for turboshaft-engine for helicopter applications.

His main area of research focuses on high temperature materials, especially Ni-based superalloys and their coatings, with a special emphasis on the impact of microstructure evolutions on their mechanical behavior and durability. He has both an experimental and constitutive modeling research activity. He has published 92 articles since 2005, 60 of them in internationally peer-reviewed journals.

He won the Jean Rist Medal in 2015 from SF2M (French Society of Metals and Materials) and the best paper awards at the Eurosuperalloys 2014 (Giens, France) and Superalloys 2016 (Seven Springs, PA, USA) conferences. Since September 2016 he is editor of the Metallurgical and Materials Transactions A journal.



FEMS Lecturer Award for Excellence in Materials Science and Engineering 2016-2017 Dr. David Maestre Varea Universidad Complutense de Madrid, ES

David Maestre Varea is an Associate Professor at the Materials Physics Department, Universidad Complutense de Madrid. He is a member of the Physics of Electronic Nanomaterials Group (FINE), a research group focused on the study of semiconductor and electronic nanostructures with the aim to investigate their structure, morphology and physical properties. He attained his PhD from the Universidad Complutense de Madrid in 2007 and worked as post-doc at the Paul Cézanne-Aix Marseille III Université (Marseille, France) and at the Christian Albrechts Universität (Kiel, Germany) where he got insights in areas of research related to photovoltaics and electronic microscopy.

Recently he has focused on the fabrication and characterization of semiconducting oxide micro- and nanostructures based on SnO2, TiO2 and In2O3. He has published more than 50 manuscripts and 2 chapters of books and invented 4 patents, two of them finalists at the "Emerging Technologies Competition, Royal Society of Chemistry 2015". He received the "Fonda Fasella Award 2011".

Organizing Societies

Professional Congress Organizer



Hellenic Metallurgical Society

www.met.gr



Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM) - www.hsstcm.eu



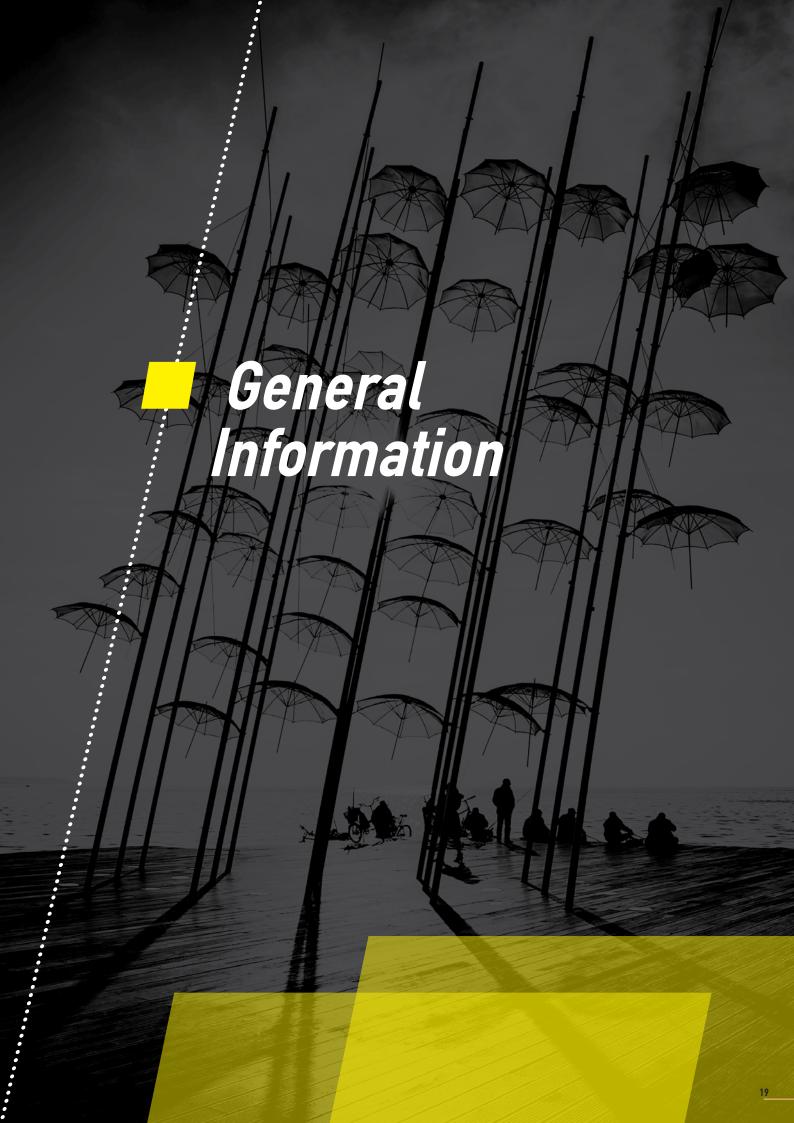


Travel and Congress Services

Professional Congress Organizer (PCO)

AFEA S.A. Travel & Congress Services 39-41 Lykavittou Street 10672 Athens, Greece Tel:+30 2103668853-54

Fax: +30 2103643511 email: euromat2017@afea.gr



Congress Dates: 17-22 September, 2017

Congress Venue:

Thessaloniki Concert Hall Convention and Cultural Center

25 Martiou Str. & Paralia, Thessaloniki 546 46 - www.tch.gr

The Thessaloniki Concert Hall is just a seventeen-minute drive (14 km) from Thessaloniki International Airport "Makedonia", and is an important centre for performing arts in Thessaloniki, Greece. The complex consists of two main buildings: M1, with a 1,500-capacity auditorium; and M2, designed by the renowned architect Arata Isozaki. The hall is functionally designed to accommodate the needs of disabled people. Since its official opening in 2000, it has held numerous events, concerts, and conferences.

How to reach the venue:

BY BUS

The Thessaloniki Concert Hall stands 100 meters from the Georgiou bus stop where buses 5, 6, 8, 33 stop and 200 meters away from Martiou bus stop, where buses 30 & 78 stop.

www.oasth.gr

BY TAXI

There is a taxi stand right outside the Concert Hall, where taxis are available.

Congress Mobile APP

Download Euromat 2017 Mobile App for free, and gain access to:

- General information about the congress
- Detailed scientific program
- Personal agenda planning
- Sponsors & Exhibition
- Congress venue floor plans
- Information about Thessaloniki

Congress Secretariat

The Congress Secretariat is located at the foyer of the M1 building and will be operating from September 17th to 22nd, 2017.

| Operating hours | | | | | |
|------------------------------|------------------------|--|--|--|--|
| Sunday, 17 September 2017 | 09:00 - 20:00 | | | | |
| Monday, 18 September 2017 | 08:00 - 19:30 | | | | |
| Tuesday, 19 September 2017 | 08:00 - 19:30 | | | | |
| Wednesday, 20 September 2017 | 08:00 - 19:30 | | | | |
| Thursday, 21 September 2017 | 08:00 - 19:30 | | | | |
| Friday, 22 September 2017 | 08:00 - 1 <i>7</i> :30 | | | | |

Exhibition

The Congress Exhibition is located at the M2 building and will be operating from September 18th to 22nd, 2017.

| Operating hours | | | | | |
|------------------------------|---------------|--|--|--|--|
| Monday, 18 September 2017 | 09:00 - 19:30 | | | | |
| Tuesday, 19 September 2017 | 09:00 - 19:30 | | | | |
| Wednesday, 20 September 2017 | 09:00 - 19:30 | | | | |
| Thursday, 21 September 2017 | 09:00 - 19:30 | | | | |
| Friday, 22 September 2017 | 09:00 - 17:30 | | | | |

Congress material

Badges and Congress material will be provided to all registered participants by the Congress Secretariat. Congress badges are mandatory for admission and access to the meeting halls and exhibition, as well as all congress functions. Please wear your badge visibly at all times. Security guards or support personnel might ask you to make your badges visible. Remember to take it off when in the city.

Certificate of attendance

A certificate of attendance will be available to all registered participants for printing, at www.euromat2017.fems.org Kindly note that Certificates of attendance will be released upon completion of the event.

Language

The official language of the congress is English. No simultaneous translation will be provided.

Internet access

Wireless internet access is available free of charge within the Congress venue. Please consult the Congress Secretariat Desk for further information and access code.

Awards

A competition for the Best Oral Award and Best Poster Award per Scientific Area (with the exception of Area G) will run throughout the days of EUROMAT conference. All participants will have the option to vote for the best oral and the best poster presentation and the winners will be announced during the Awards session of Friday 22/09/2017.

Speakers Preview Desk

A Speakers Preview Desk is located at the M1 building, level 0 & at the M2 building, level 0.

| Operating hours | | | | | | |
|------------------------------|---------------|--|--|--|--|--|
| Sunday, 17 September 2017 | 11:00 – 20:00 | | | | | |
| Monday, 18 September 2017 | 08:00 - 19:30 | | | | | |
| Tuesday, 19 September 2017 | 08:00 - 19:30 | | | | | |
| Wednesday, 20 September 2017 | 08:00 - 19:30 | | | | | |
| Thursday, 21 September 2017 | 08:00 - 19:30 | | | | | |
| Friday, 22 September 2017 | 08:00 - 17:30 | | | | | |



Useful Information for Oral presentations

Information for presenters

It is highly recommended that all the speakers upload their presentation files (USB or CD) at the Speaker Preview desk (M1/Level O), at least one day and at the latest three hours before their presentation. Presentations will be distributed and projected to the meeting rooms via a central computer system. All meeting rooms are equipped with a laptop and an LCD Projector. Kindly note that the use of a personal laptop or/and any other device is not recommended and it is upon the speaker's responsibility. As a reminder, VHS videos, 35 mm slides, overhead projection (transparencies etc.) will not be available.

Important notes & recommendations

- All presentations must be in English
- Authors are expected to present their paper in person at the congress; in any other case, the congress organizers should be informed in advance
- All presenters/speakers are kindly requested to check their presenting room and be there at least 15 minutes before the session begins. The presenters are kindly asked to present themselves to the Session Chair Each presentation should not exceed the time allocated. Keeping to the time limit is crucial to allow delegates to move from one session to another

Useful information for Chairpersons

You are kindly requested to:

- Keep the session to the time allocated
- Give short introductions on the speakers and the papers to be presented
- Facilitate discussion by asking a number of pertinent questions for each one of the papers, if necessary
- Keep the discussion brief and relevant
- Be in the room 10 minutes before the session begins and introduce yourselves to the speakers
- Check speakers' names, titles and affiliations
- Start & end on time. Always should grant time for floor discussion
- Hold each speaker to the allocatted time
- If a presenter ends early or does not attend, please use that extra time for questions and remarks from the audience, the panel, or yourselves. Please make sure that the following presentation doesn't start earlier than scheduled
- In floor discussion, it is recommended that you ask participants to introduce themselves, by saying their name, country and institution and repeat the questions, to be sure that they are heard by everyone in the audience

Useful Information for Poster presentations

Poster Presentations

The Poster Area is located at the foyer of the M1 building (+1 level). Poster reference numbers will be displayed at the top of the poster boards. Participants are kindly requested not to remove or change the numbers. The Congress Secretariat is not responsible for material left behind, lost, damaged or stolen. Authors are responsible for mounting/removing their posters, according to the below respective information.

Poster Session I

Poster Session I, is scheduled on Tuesday, September 19, 2017 at 13.00-15.00 All authors whose posters are accepted to Poster Session I, should mount their poster on Tuesday, September 19, 2017 at 08.00-09.00 and remove them on Wednesday, September 20, 2017, by the end of the day.

Poster Session II

Poster Session II, is scheduled on **Thursday, September 21, 2017** at **13.00-15.00** All authors whose posters are accepted to Poster Session II, should mount their poster on **Thursday, September 21, 2017** at **08.00-09.00** and remove them by the end of the day.

Green Policy

In maintaining a high standard of environmental awareness and compliance, Euromat 2017 follows a Green Policy.

Euromat 2017 is designated non-smoking.

Euromat 2017 has reduced the amount of printed material that is distributed at the Congress, but continues to print material considered essential for the effective organization or communication of the event. Although, Euromat 2017 still has a printed final program, previously printed material has been replaced by online information on the congress website, the congress application and a USB.

Liability and insurance

The Organizers accept no liability for any personal injury, loss or damage of property or additional expenses incurred to Congress participants, either during the Congress or as result of delays, strikes, or any other circumstances. Participants are requested to make their own arrangements with respect to health and travel insurance.

Catering services

Coffee breaks will be served at the foyer of buildings M1 & M2:

Monday, Tuesday, Wednesday, Thursday, Friday: 10:30-11:00

Monday, Tuesday, Wednesday, Thursday: 17:00-17:30

Lunches will be served at the foyer of buildings M1&M2:

Monday, Tuesday, Wednesday, Thursday, Friday: 13:00-14:30

Social Events

Welcome reception

Date: September 17, 2017

Time: 20:00

At Thessaloniki Concert Hall Convention and Cultural Center

Included in the registration fee



and finding out more about the Institute of Materials, Minerals and Mining (IOM3).











http://bit.ly/2timcwm





Cultural event

Date: Tuesday, September 19, 2017

Time: 20:00

At Thessaloniki Concert Hall Convention and Cultural Center

Included in the registration fee

Special dedicated concert held by the Symphony Orchestra of the Municipality of Thessaloniki

The Symphony Orchestra of the Municipality of Thessaloniki was founded in 1987. Its first name was "Municipal Orchestra" and its first artistic director was Cosmas Galileas. The Orchestra is comprised by talented and renowned musicians and participates dynamically in the musical world of the city, giving concerts in Thessaloniki, as well as all over Greece and abroad. Since July 1993 and for five consecutive years, the Orchestra's artistic director was the conductor Dimitris Agrafiotis and right after him, until 2005, the conductor Byron Fidetzis. Today, the Orchestra is directed by the conductor Haris Iliadis.

During all these years, the Symphony Orchestra had the joy and the honor to work with outstanding soloists and conductors, such as: D. Sgouros, G. Demertzis, L. Kavakos, M. Tirimos, Y. Vakarelis, K. Katsaris, F. J. Sellheim, I. Ionescu - Galati, R. Moog, I. Oistrakh, R. Syracuse, V. Tretiakov, K. Kelly, G. Schuller, C. Studer, P. Badura – Skoda, and others.

Gala Dinner

Gala Dinner

Date: Wednesday, September 20, 2017

Time: 21:00

At Makedonia Palace Hotel Price per person: 70 € Not included in the registration fee Dress code: Elegant smart casual

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Local Information & facilities

City Info

For further information about Thessaloniki, please visit the City Desk (Thessaloniki Tourist Office), which will be located at the congress venue.

Electricity

Greece uses 220V alternating current. Plugs and sockets are European standard with two round pins.

Currency

Greece is a member of the Eurozone and euro is the official currency. You can buy euros from banks, exchange offices in the city center and the airport "Makedonia", while foreign exchange services are offered in many hotels. The opening hours of banks accepting foreign currency are:

Monday-Thursday: 8:00 -14:30 & Friday: 8:00 -13:30.

Time Zone

Thessaloniki, like the rest of Greece, belongs to the Eastern European Time Zone and is two hours ahead of Greenwich Mean Time (GMT +2). Like most European countries, Thessaloniki implements daylight saving time.

Wi-Fi Hot Spots

The Municipality of Thessaloniki offers the possibility of free wireless internet access from mobile devices such as smartphones, tablets, laptops in places of economic, tourist, and social interest of the city.

The free wireless access points are: Mina Patrikiou Square

Municipal Swimming Pool

Floricultural park

New City Hall

Tsimiski Avenue – Angelaki Street

Entrance of Thessaloniki International Fair (TIF)

N.Germanou Street - Entrance of the Municipal **Garden Theatre**

Society for Macedonian Studies

White Tower Square

Romfei square

Aristotle Square

Useful Phone Numbers

Thessaloniki area code (30) 2310

European Emergency 112

Police 100

Tourist Police (+30) 2310554874

199 **Fire Department**

Ambulance 166

Port Authority (+30) 2310593134

Traffic Police (+30) 2310250740

Railway Customer Service

Centre

14511

Urban Transportation 11085

Intercity coaches (+30) 2310595400

TAXI 18300, 18180, 18288

Airport (+30) 2310985000





| | FUNCTIONAL MATERIALS - Area Coordina | ator: Emmanouel Giannelis |
|----|---|--|
| | SYMPOSIUM | ORGANIZERS |
| A1 | CARBON-BASED NANOMATERIALS | Eric Anglaret, Vladimir Falko Costas Galiotis, Maurizio Prato |
| A2 | INNOVATIONS IN FUNCTIONAL NANOMAGNETS | Makis Angelakeris, Michael Farle Panagiotis Poulopoulos, Radek Zboril |
| A3 | FUNCTIONAL POLYMERS AND RELATED (NANO)COMPOSITES | Jean-François Gerard, Philippe Dubois, Ton Peijs |
| A5 | COLLOIDAL NANOPARTICLES: SYNTHESIS, FUNCTIONALIZATION AND APPLICATIONS | Antonios G. Kanaras, Wolfgang Parak, Liberato Manna, Catherine Dendrinou Samara |
| A6 | ADVANCED MATERIALS FOR SPACE EXPLORATION | George Vekinis, Barrie Dunn |
| A7 | FUNCTIONAL NANOMATERIALS FOR NOVEL APPLICATIONS | Paloma Fernàndez-Sanchez, Ana Cremades Oliver Rader, Peter Schaaf |
| A8 | MATERIALS BY DESIGN | Julien Varignon, Nicholas C. Bristowe |
| A9 | FUNCTIONAL MEMBRANES | Volker Abetz, Katja Loos |

| ANEA D | STRUCTURAL MATERIALS - Area Coordinators: Hans-Jü SYMPOSIUM | ORGANIZERS |
|--------|--|---|
| В | OVAKO ADVANCED HIGH STRENGTH STEELS | Wolfgang Bleck, Francisca Caballero Ronald Schnitzer |
| В | LIGHT WEIGHT METALS | Michele V. Manuel, Norbert Hort, Alan Luo, Eric Nyberg, Mathieu Brochu, Frank Monheillet |
| В | HIGH-TEMPERATURE ALLOYS | Srdjan Milenkovic, Shigehisa Naka |
| В | ADVANCED PROPERTIES OF SPD-PROCESSED METALLIC MATERIALS | Heinz Werner Höppel, Andrea Bachmaier Anton Hohenwarter |
| В | ADVANCED CERAMICS | Thomas Graule, Jerzy Tadeusz Lis Athena Tsetsekou, Dariusz Kata |
| В | ADVANCED COMPOSITES | Aravind Dasari, Bodo Fiedler |
| В | HYBRID AND METAL ORGANIC FRAMEWORK (MOF) MATERIALS | Bartolomeo Civalleri, Jin-Chong Tan |
| В | HIGH ENTROPY ALLOYS AND COMPOSITIONALLY COMPLEX ALLOYS | Glatzel Uwe, Easo George |
| В | BULK METALLIC GLASSES | Jürgen Eckert, Jörg F. Löffler |
| В | FATIGUE, WEAR AND CORROSION OF MATERIALS AND STRUCTURES | Georgios Savaidis Michael Vormwald, Wolfram Fürbeth |
| B | 11 MECHANICAL PROPERTIES AND MICROSTRUCTURE | Tilmann Beck, Frank Walther |

| | PROCESSING – Area Coordinator: Nikolaos Michailidis | | | | | | |
|-----------|--|---|--|--|--|--|--|
| | SYMPOSIUM | ORGANIZERS | | | | | |
| C1 | COATINGS AND SURFACE MODIFICATION TECHNIQUES | Elias Aperathitis, Albano Cavaleiro Rainer Cremer, Ru Lin Peng | | | | | |
| C2 | LASER-BASED PROCESSING AND MANUFACTURING | Robert Eason, Andrés F. Lasagni Römer Gert-willem, Ioanna Zergioti | | | | | |
| СЗ | POWDER ROUTES: FROM SYNTHESIS TO PROCESSING | Claude Estournès, Christophe L. Martin | | | | | |
| C4 | ADDITIVE MANUFACTURING | Ugo Lafont, Alberto Molinari Sebastian Piegert, Eduard Hryha | | | | | |
| C5 | INTERFACE DESIGN AND MODELLING, WETTING AND HIGH-TEMPERATURE CAPILLARITY | Simeon Agathopoulos, Fabrizio Valenza | | | | | |
| C6 | JOINING | Ivan Kaban, Christof Sommitsch | | | | | |
| C7 | STEEL MAKING | Johannes Schenk, Spyros Papaeftymiou | | | | | |
| C8 | SOLIDIFICATION, CASTING, FOUNDRY AND LIQUID METAL PROCESSING | Alexandros Karantzalis, Andrew Kennedy | | | | | |
| C9 | MANUFACTURING PROCESSES | K.D. Bouzakis, Luca Settineri | | | | | |
| C10 | THERMOMECHANICAL PROCESSING, SEVERE PLASTIC DEFORMATION AND NANO-STRUCTURING | G. Angella, T. Grosdidier J. Ivanisenko, M. Krzyzanowski | | | | | |
| C11 | PROCESSES AND MATERIALS FOR NANOELECTRONICS | Dimitris Tsoukalas, Marco Fanciulli, Alain Claverie | | | | | |

AREA D

| | CHARACTERIZATION AND MODELLING - Area Coordin | ators: Eric Le Bourhis & Sotirios Ves |
|-----------|--|---|
| | SYMPOSIUM | ORGANIZERS |
| D1 | MATERIALS SCIENCE WITH SYNCHROTRON RADIATION X-RAYS | Federico Boscherini Maria Katsikini, Peter D. Lee |
| D2 | NANOSCALE MATERIALS CHARACTERIZATION AND MODELING BY ADVANCED MICROSCOPY METHODS Nanomegas | Thomas Walther, Georgios Dimitrakopulos Stawomir Kret, Georgios Fourlaris |
| D3 | MATERIALS AT EXTREME CONDITIONS: STATIC OR DYNAMIC COMPRESSION COMBINED OR NOT WITH LOW OR HIGH TEMPERATURES | Jean Paul Itié John Arvanitidis, Ilias Zouboulis |
| D4 | SMALL SCALE MECHANICS, FRACTURE, INTERFACE, EXPERIMENTS AND MODELING | Christophe Pinna, Eric Le Bourhis |
| D5 | APPLICATION OF ICME PRINCIPLES IN THE DESIGN OF STRUCTURAL MATERIALS | Ulrich Prahl, Ernst Kozeschnik Javier Llorca, Yu Zhong |

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AREA D

CHARACTERIZATION AND MODELLING - Area Coordinators: Eric Le Bourhis & Sotirios Ves **SYMPOSIUM ORGANIZERS** MULTI-LENGTH-SCALE INNOVATIONS IN DAMAGE Bernard Normand, Ellen Cerreta FEMS : TIMIS EVOLUTION IN MATERIALS: CHARACTERIZATION, George T Gray III, Damien Féron MODELING, AND VALIDATION AB INITIO MODELS FOR THERMODYNAMIC AND D8 Sergei Dudarev, Martin Friak **ELASTIC PROPERTIES OF ADVANCED MATERIALS** QUALIFICATION AND MODELLING OF STRUCTURAL AND Lorenzo Malerba, Marjorie Bertolus D9 FUEL MATERIALS FOR SUSTAINABLE NUCLEAR REACTORS Jana Kalivodovà Karakasidis Theodoros, Kalliadasis Serafim Koumoutsakos Petros, Tserpes Konstantinos MULTISCALE MODELING OF MATERIALS Schmauder Siegfried

| В | ENERGY AND ENVIRONMENT - Area Coordinators: Maria Luisa Di Vona & Emmanuel Giannelis | | |
|------------|--|--|--|
| AREA | SYMPOSIUM | ORGANIZERS | |
| E1 | HYDROGEN PRODUCTION, CONVERSION, AND STORAGE | Maria Luisa Di Vona, Bogdan Kuchta Ioannis Kallitsis, Toshiyuki Mori | |
| E2 | BATTERIES AND SUPERCAPACITORS | Philippe Knauth, Isabella Nicotera Alan V. Chadwick, Jean Scoyer | |
| E3 | MATERIALS FOR ENERGY HARVESTING | Spyros Diplas, Theodora Kyratsi Truls Norby, Paul R. Ohodnicki Amit Pandey, Monica Della Pirriera Susan Schorr, Joäo Manuel de Almeida Serra, Jianwu Sun | |
| E4 | MATERIALS FOR NUCLEAR ENERGY (FUSION, FISSION) | Thierry Angot, Christian Grisolia Dirk Engelberg | |
| E 6 | ADVANCED MATERIALS FOR TRANSPORT APPLICATIONS | Dirk Lehmhus, Axel von Hehl Rene Alderliesten, Kambiz Kayvantash Jörg Hohe, Joachim Hausmann | |

F1

F3

F4

***EKSPLA**

AREA F

BIOMATERIALS AND HEALTH CARE- Area Coordinators: Jérôme Chevalier and María Vallet-Regí **SYMPOSIUM ORGANIZERS** Antonio Salinas, Aldo Boccaccini Chiara Vitale-Brovarone BIOMATERIALS FOR TISSUE ENGINEERING Katharina Schmidt Bleek Didier Letourneur Miguel Manzano, João Mano BIOMATERIALS FOR THERAPEUTIC DELIVERY Maria Vallet-Regi Alejandro Baeza Daniel Ruiz-Molina NANOBIOMATERIALS AND NANOTECHNOLOGY FOR IMPLANTS, **DEVICES AND THERANOSTICS** Maria Vallet-Regi THE NEXT GENERATION OF IMPLANTS WITH MULTI-FUNCTIONAL PROPERTIES: Aldo Boccaccini, Pieter Cools ADVANCED SYNTHESIS, PROCESSING AND SURFACE MODIFICATION METHODS Laurent Gremillard, Paola Palmero FOR BIOMATERIALS Jérôme Chevalier, Hakan Engqvist Tobias Fuederer, Christophe Marquette Corrado Piconi TRANSLATION OF BIOMATERIALS RESEARCH TOWARDS INNOVATION AND PRODUCT DEVELOPMENT: FROM CONCEPTS TO CLINIC

Peter Fratzl, Julian Jones

Sylvain Meille, Eduardo Saiz

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| D A | EDUCATION AND TECHNOLOGY TRANSFER - Area Coordinator: Heinrich Hofmann | | |
|-----------|--|--|--|
| AREA | SYMPOSIUM | ORGANIZERS | |
| G1 | COMPETENCES AND BASIC KNOWLEDGE IN THE ICT ER | Paloma Fernàndez -Sanchez | |
| G2 | KEY MATERIAL FIELDS FOR MODERN CURRICULA | H.M. Polatoglou Mébarek Alouani, Michael Finnis | |
| G3 | CRITICAL MATERIALS IN DESIGN, MANUFACTURING AND RECYCLING | Margarethe Hofmann | |
| G4 | TRANSFERABLE SKILLS FOR MASTERS AND PHD's IN MATERIAL SCIENCE | Heinrich Hofmann, Emmanuel Giannelis | |

BIO-INSPIRED MATERIALS: FROM STRUCTURAL MATERIALS

TOWARDS MULTI-FUNCTIONAL BIOMATERIALS

| H | | RAW MATERIALS - Area Coordinators: Bart Blanpain & Patrice Turchi | | | |
|------|----|--|---|--|--|
| AREA | | SYMPOSIUM | ORGANIZERS | | |
| | H1 | CRITICAL MATERIALS: IMPACT ON NEAR-TERM ADVANCED ENERGY TECHNOLOGIES | Orlando Rios, P. E. A. Turchi Iver Anderson, Steve Constantinides Roderick Eggert | | |
| | Н2 | SUSTAINABLE PRODUCTION OF (CRITICAL) MATERIALS | Dimitrios Panias Mishra Brajendra, Guo Muxing | | |
| | НЗ | MATERIALS LIFE CYCLE APPROACH AND FLOW ANALYSIS | Margarethe Hofmann-Amtenbrink, Alessandra Hool, Roland Gauß Guido Sonnemann | | |





| MONDAY 18 SEPTEMBER 2017 | | TIME : 09:00 |
|--------------------------|--|---------------------|
| ROOM: | Friends of Music Hall/M1 | |
| CHAIRPERSON: | Panos Tsakiropoulos, Anna Zervaki, Brett Suddell | |

| MONDAY 18 SEPTEMBER 2017 | | TIME: 09:00-10:30 |
|--------------------------|--------------------------|--------------------------|
| R00M: | Friends of Music Hall/M1 | |
| CHAIRPERSON: | Brett Suddell | |

OPENING CEREMONY

FEMS European Materials Medal 2017



Prof. Doros N. Theodorou
School of Chemical Engineering
National Technical University of Athens, Greece

"Molecular Modeling of Materials: Promises, Challenges, and Impact"

Molecular-based approaches for understanding and tailoring structure-propertyprocessing relations in materials, based on the fundamental principles of quantum and statistical mechanics, have gained ground in academic research and industrial practice. They have been greatly aided by an unprecedented growth in computer power, but also by new, efficient theoretical and computational methods and algorithms. The broad spectra of length and time scales governing structure and dynamics in real-life materials have demanded the advancement of multiscale modeling strategies, involving more than one levels of representation, to bridge atomistic constitution and interactions with macroscopic properties. In this talk we will discuss examples of molecular modelling of polymeric and nanostructured materials, addressing questions such as: How can we push the frontiers of predictability by appropriate design of multiscale theoretical and simulation approaches? Can computational high-throughput screening guide experimental efforts towards the development of new materials? What is the impact of materials modelling in industrial environments?

| TUESDAY 19 SEPTEMBER 2017 | | TIME: 09:00-10:30 |
|---------------------------|--------------------------|-------------------|
| R00M: | Friends of Music Hall/M1 | |
| CHAIRPERSON: | Panos Tsakiropoulos | |

| TUESDAY 19 SEPTEMBER 2017 | | TIME: 09:00-10:30 |
|---------------------------|--------------------------|-------------------|
| R00M: | Friends of Music Hall/M1 | |
| CHAIRPERSON: | Brett Suddell | |

FEMS Materials Science and Technology Prize 2017



Prof. Anna Fontcuberta i Morral
Laboratory of Semiconductor Materials
Ecole Polytechnique Federale
De Lausanne, Switzerland



Prof. Andrés-Fabiàn Lasagni Institute for Manufacturing Technology TU Dresden, Germany Fraunhofer-Institut für Werkstoff-und Strahltechnik IWS, Dresden, Germany

"Semiconductor nanowires for next generation photovoltaics"

Semiconductor nanowires are filamentary crystals with a diameter in the range between few and hundred nanometers. Their special morphology and small size has inspired new applications and fundamental studies. In this talk we will present state-of-the-art and perspectives of III-V nanowires and related heterostructures in terms of growth and their application in photonic, quantum science and energy harvesting devices [1]. We will address the challenges of growing this kind of structures on silicon substrates and provide a path for reproducible growth of high quality structures [2-4].



Figure 1. Scanning electron micrographs of ordered GaAs nanowire arrays obtained on a (111) silicon substrates for different growth times. The scale bar represents one micrometer[4].

"Bridging the gap between high resolution laser structuring and high throughput using Direct Laser Interference Patterning"

Starting from a simple concept, transferring the shape of an interference pattern directly to the surface of a material, the method of Direct Laser Interference Patterning (DLIP) has been continuously developed in the last 20 years. From lamp pumped to high power diode-pumped lasers, DLIP permits today for the achievement of impressive processing speeds, even close to 1 mC/min. The objective: to improve the performance of surfaces by the use of periodically ordered micro and nanostructures. This study describes the advances performed in the DLIP method, with the objective of bringing this technology to real industrial applications. From the structuring of thin metallic films to bulk materials using nano- and picosecond laser systems, going through different optical setups and industrial systems which have been recently developed. Several technological applications are discussed. In all cases, DLIP has not only shown to provide outstanding surface properties but also outstanding economic advantages compared to traditional methods.

^{1.} P. Krogstrup et al, Nature Photon. 7, 306 (2013)

^{2.} E. Russo-Averchi et al Nano Lett. 15, 2869 (2015)

^{3.} H. Potts et al, Nano Lett. 16, 637 (2016)

^{4.} J. Vukajlovic-Plestina et al, submitted (2017)

| WEDNESDAY 20 | SEPTEMBER 2017 | TIME: 09:00-10:30 | |
|--------------|--------------------------|-------------------|--|
| R00M: | Friends of Music Hall/M1 | | |
| CHAIRPERSON: | Anke Kaysser-Pyzalla | | |



Prof. Dr. Ing. habil.
Oliver Gutfleisch
Institut für Materialwissenschaft
FG Funktionale Materialien
TU Darmstadt, Germany

Magnets as enablers for renewable energy and resource efficiency

Magnetic materials are key components in energy related technologies, sensors and information technology. Magnets are inseparable from our everyday life. "Green" energy technologies such as wind turbines, electro-mobility and solid state cooling, heavily rely on high performance magnetic materials which have to be available in bulk quantities, at low-cost and with tailored magnetic hysteresis properties [1].

The realisation of these technologies is closely linked to the sustainable availability of the strategic metals for magnetism such as the group of rare earth elements (REE) namely Nd, Gd, Tb, Dy, transition metals such as Co, Ga, Ge, In, and the platinum group metals. Resource criticality is understood here as a concept to assess potentials and risks in using raw materials for certain technologies, and their functionality in emerging technologies. The concept of criticality of strategic metals is explained by looking at demand, sustainability and the reality of alternatives of rare earth elements [2].

There is an ever-growing demand for the benchmark high performance Nd-Fe-B magnets, most importantly for use in e-motor applications, for example, in all kinds of machinery, automatization and robotics in industry (Industry 4.0). The key question will be whether Nd-Fe-B needs to be and could be substituted substantially in some of the existing and upcoming competing technologies. The arrival of a more widespread use of e-mobility and wind energy and other smart magnet usages has yet to have its impact on this applica-

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- [6] O. Gutfleisch, T. Gottschall, M. Fries, D. Benke, I. Radulov, K. P. Skokov, H. Wende, M. Gruner, M. Acet, P. Entel and M. Farle, Mastering hysteresis in magnetocaloric materials, Phil. Trans. R. Soc. A 374: 20150308. http://dx.doi.org/10.1098/rsta.2015.0308. (2016)

tion field in terms of Nd demand. No substitute is at hand for the massive amounts of high-energy density magnet materials needed to run fast moving automated industrial machinery, and the demand is expected to rise for these kinds of applications. The same applies to e-motors in hybrid electric cars, where motor designers find highly limited construction space [2, 3]. There are different concepts for wind turbines, including those that require less or no permanent magnet materials. However, permanent magnet - so-called permanent magnet direct drive wind turbines - are far superior in terms of energy efficiency and maintenance cost and seem to be becoming the dominating type of machinery in Europe and worldwide [4].

Gas-vapour compression technology for refrigeration, heating, ventilation, and air-conditioning has remained unchallenged for more than 150 years. There is a huge demand for a smarter, more flexible and more efficient cooling technology. Magnetic refrigeration could be that alternative working without gas-based refrigerants. Energy spent for domestic cooling is expected to outreach that for heating worldwide over the course of the twenty-first century.

The talk will address these different global trends and will attempt to scale bridge these challenges by discussing the modelling, synthesis, characterization, and property evaluation of novel magnetic materials considering their micromagnetic length scales and phase transition characteristics [5,6].

| WEDNESDAY 20 | 20 SEPTEMBER 2017 TIME: 09:00 - 10:30 | |
|--------------|---------------------------------------|--|
| ROOM: | Friends of Music Hall/M1 | |
| CHAIRPERSON: | Brett Suddell | |

Materials Innovation Medal 2017



Dr. Thierry Chartier
Science des Procédés Céramiques
et de Traitements de Surface (SPCTS
European Ceramic Center. France

Additive Manufacturing of ceramics: a new way to design and fabricate advanced ceramic parts

Since their introduction in the late 1980s, additive manufacturing technologies (AM) have become very attractive to produce accurate parts via an automated process. The part is directly built up from a computer-aided-design (CAD) file, allowing the user to have an immediate response on the shape, function or performance of the object.

Used in a wide range of industries, AM allows companies to turn innovative ideas into successful end products rapidly and efficiently. Depending on the nature of the final object, the AM techniques can be used to produce a cost-effective single item or a low - volume manufacturing. Today, AM technologies are currently becoming real manufacturing processes in various industrial fields.

In the domain of ceramics, AM technologies constitute an attractive answer to the need of shaping techniques to produce useful complex parts and specific architectures which cannot be produced with a traditional method, without costly tooling and/or machining. AM technologies of ceramics are flexible techniques that offer the ability to directly redesign parts (shape/dimensions) in the CAD file to optimize a property, restricted by conventional

manufacturing methods, and with the great advantage not to have to modify the tooling.

Additive processes are likely going to transform the field of ceramic manufacturing and will open new ways of thinking about objects design and fabrication of advanced ceramic with improved or new functions.

AM technologies used in the ceramic domain, such as, Binder jetting, Robocasting, Ink-jet printing, Selective laser sintering and Stereolithography, are used or under development to build 3D ceramic parts. Among these methods, the space-resolved UV photopolymerization of a reactive ceramic system (Stereolithography) presents the advantage to makes it possible to fabricate useful, dense complex 3D objects, with a high dimensional resolution, a good surface finish and properties similar to those obtained by classical routes. This process is used to design and fabricate innovative advanced ceramic components for various applications (space, telecommunication, biomedical, engineering, jewelry...) requiring specific properties.

| THURSDAY 21 SEPTEMBER 2017 | | TIME: 09:00-10:30 |
|----------------------------|--------------------------|-------------------|
| ROOM: | Friends of Music Hall/M1 | |
| CHAIRPERSON: | Panos Tsakiropoulos | |





Prof. John Ågren

Dept. of Materials Science and Engineering
Royal Institute of Technology (KTH)
Sweeden



Prof. Spyros Pantelakis
Department of Mechanical
Engineering & Aeronautics
University of Patras, Greece

"Computational modeling and Materials Design"

Over the last 15 years "Computational modeling and Materials Design" has become a hot topic demonstrated by a steady growth in number of yearly publications and citations. During 2016 there were around new 11000 citations! Thus materials design should now be considered as an enabling technology and a real game changer in strive for faster materials development. No doubt it is a key to the circular economy and a sustainable society. For example, it offers design of materials that fulfill certain performance requirements with available raw materials. For industry this is a strategic area because the companies that master the technology will have a strong competitive advantage.

The ability to perform materials design depends critically on efficient computational models capable of predicting properties and performance with sufficient accuracy. Typically a variety of approaches operating on different scales of length and time are needed and integrated in the design process. This is the basis for the concept of Integrated Computational Materials Engineering (ICME), a field that has evolved during the last decade. The models need highly processed data extracted from the pool of raw data, i.e. the protodata, stemming from experiments and ab-initio quantum mechanical calculations. Databases containing such highly processed data are referred to as genomic databases and are a part of the Materials Genome. The CALPHAD thermodynamic and kinetic databases are role models for genomic databases.

The talk will review some of the background and present the state of the art. Some recent examples, on hard materials, glassy alloys and high-strength steels will be presented and discussed.

"Current advances and emerging needs in (r)evolutionizing aircraft structures"

Faster, safer, quieter and less polluting, operational at all weather, more cost efficient, fully recyclable are only some of the technological requirements set for modern and, especially, for future aircrafts. To respond to these demanding objectives requires for major advancements in the entire concept of designing and manufacturing an aircraft.

The aim of this work is to present current advances aircraft structures, underline the need for breakthrough concepts and technologies on designing and manufacturing aircraft structures in order to cope with the above highly demanding targets from the view point of aerostructures and present examples of some recent efforts towards revolutionizing aircraft structures.

At first, a brief overview will be made showing the evolution of aircraft materials and structures from the first all Aluminum alloy aircrafts to today's Airbus A350 made by 52% from composites. Then the work will focus on presenting significant milestones and major current achievements on material development, design concepts and manufacturing techniques allowing for the step changing evolution of aircraft structures from differential to integral. Characteristic examples such as large integral composite smart structures, involving shape morphing composite wing parts, multifunctional materials in structural applications, Structural Health Monitoring abilities by using embedded sensors, cost effective manufacturing techniques for producing thermoplastic composite structures, structural adhesive bonding, advancements on producing metallic parts made by involving Additive Manufacturing following to topology and shape optimization, etc. will be discussed. The progress achieved so far will be assessed against the technological targets set in Flight Path 2050 published by the European Commission in the year 2011. Finally, some ongoing efforts to achieve breakthrough solutions such as bio-inspired design concepts, development of aircraft wing structural concepts suitable for novel aircraft propulsion systems such as distributed propulsion combined to electrical power, use of multifunctional and self healing materials and structures, development of multifunctional structures, use of bio-composites, development of nanocrystalline aeronautical alloys, etc. will be presented.

| FRIDAY 22 SEPT | EMBER 2017 | TIME: 09:00-10:30 |
|----------------|--------------------------|-------------------|
| R00M: | Friends of Music Hall/M1 | |
| CHAIRPERSON: | Anke Kaysser Pyzalla | |





Prof. Luis M. Liz-Marzàn Ikerbasque Research Professor Scientific Director CIC biomaGUNE, Spain



Prof. Dimitris LagoudasDepartment of Aerospace Engineering
Texas A&M University, USA

"Composite Plasmonic Materials for Sensing and Imaging"

Metal nanoparticles display very interesting optical properties, related to localized surface plasmon resonances (LSPR), which give rise to well-defined absorption and scattering peaks in the visible and near-IR spectral range. Such resonances can be tuned through the size and shape of the nanoparticles, but are also extremely sensitive towards dielectric changes in the near proximity of the particles surface. Therefore, metal nanoparticles have been proposed as ideal candidates for biosensing applications. Additionally, surface plasmon resonances are characterized by large electric fields at the surface, which are responsible for the so-called surface enhanced Raman scattering (SERS) effect, which has rendered Raman spectroscopy a powerful analytical technique that allows ultrasensitive chemical or biochemical analysis, since the Raman scattering cross sections can be enhanced up to 10 orders of magnitude, so that very small amounts of analyte can be detected.

In this communication, we present several examples of novel strategies to employ nanostructured materials comprising gold nanoparticles embedded in porous oxides or polymers, as substrates for ultrasensitive detection of various analytes, including biorelevant molecules such as bacterial quorum sensing markers, which require the design of novel techniques for trapping them close to the metal nanostructures or to avoid signal contamination by larger biomolecules. Hybrid colloidal nanomaterials will also be introduced as SERS-encoded tags for cell identification and bioimaging. Strategies toward the incorporation of multiple functionalities for improvement of sensitivity and imaging will also be introduced.

Keywords: Plasmonics, SERS, Biosensing, Bioimaging

Recent Developments on Modeling and Characterization of Phase Transforming Shape Memory Alloys

Materials exhibiting generation or recovery of moderate to large inelastic deformations due to a reversible solid-to-solid phase transformation have gained interest in the materials community due to their existing and potential applications in the aerospace, automotive, petroleum, infrastructure and biomedical fields. In this talk, we focus on Shape Memory Alloys (SMAs), mostly NiTi and NiTiHf, which undergo a reversible austenitic to martensitic phase transformation, and we present our recent research efforts on the characterization and modeling of their behavior. These efforts aim to enhance the applicability of such complex materials in multiple engineering applications. The current work is divided into four main topics discussing the micromechanical modeling of SMAs, the application of Bayesian statistics for optimal experimental design, the modeling of fatigue and fracture of SMAs, and the multiscale modeling of SMA structural components. The current effort on micromechanical modeling of SMAs focuses on the prediction of the behavior of precipitation hardened SMAs. Precipitation hardened SMAs have gained significant attention in the materials community because their thermomechanical cyclic stability, phase transformation temperatures, and transformation strains can be adjusted through precipitation. Precipitates are nucleated during processing in which SMAs are subjected to solution annealing and subsequent aging. The predictions of the thermomechanical response of precipitation hardened SMAs are based on the modeling of representative volume elements, which take into account the presence of precipitates and the effects of diffusion of the constituent elements during precipitate formation. Bayesian approaches for optimal experimental design are coupled with the developed models to identify the optimal heat treatment and chemical composition to acquire materials with optimal performance for desired applications. The use of SMAs in novel applications also requires a thorough understanding of their fatigue life and fracture properties. Therefore, the phase transformation induced fatigue under load (or actuation fatigue) and fracture are investigated and their difference from the classical fatigue and fracture are discussed. Finally, we present multiscale modeling approaches that combine micromechanical modeling to acquire the material constitutive response with computationally efficient reduced order finite element models. These approaches enable the performance of computationally efficient simulations of the thermomechanical response of SMA structural components with particular focus on aerospace applications.





MONDAY 18 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G3: Critical Materials in Design, Manufacturing and Recycling

ROOM ARTIST CAFÉ/M1

CHAIR | Margarethe Hofmann



Prof. Dr. Armin Reller

Chair of Resource Strategy University of Augsburg Universitätstrasse1a, D-86159 Augsburg, Germany IWKS, Fraunhofer Project Group Materials Recycling and Resource Strat., D-63755, Alzenau, Germany

Prof. Dr. Armin Reller is professor for resource strategy in Augsburg, at the Institute of Materials Resource Management, Germany. His research focuses on the synthesis and properties of functional materials relevant for energy and environment technologies, more specifically to ecological and socio-economic impacts of exploring and applying strategic resources.

Former professor for solid state chemistry at the Institute of Physics, he now serves as chairman of the Environmental Science Center (ESC), member of the board of the Application Center for Materials and Science (AMU), and as chairman of the Graduate School "Resource Strategy Concepts for Sustainable Energy Systems" at the Universität Augsburg. He received his Ph.D. at the ETH Zürich, was postdoc at Cambridge University, did research at the Indian Institute of Science, Bangalore and was professor at the Institute of Inorganic and Applied Chemistry at the Universität Hamburg. He coordinates the Programme Solar Chemistry/ Hydrogen/Regenerative Energy Carriers for the Swiss Office of Energy Berne, Switzerland. He publishes widely, including journals such as "GAIA. Ökologische Perspektiven in Natur-, Geistes- und Wirtschaftswissenschaften" (ökom-Verlag). Also, he is a member of the raw materials council of the Umweltbundesamt, UBA (Berlin, Germany).



Willem Bulthuis

Global High-Tech Executive, Board Advisor, Business Angel, Investor

30 years of experience in Global High-Tech industries as Executive at Philips Electronics, NXP Semiconductors, Giesecke & Devrient, securet Security Networks AG.

Founding Partner of TCF Partners (Amsterdam, Munich, London), investing in capital-intensive sustainability ventures. Active Business Angel and Board Member for start-ups. Board Advisor for Corporates on Digitisation and Corporate Venturing. Focus on Digitization of Industries, Sustainability, Energy, Recycling, Agriculture, Mobility, Logistics, Smart Factories.

Co-Founder of sustainabill and Investor & Board Member at Verso Globe, two sustainability management start-ups.

Held Executive positions as Member of the Board of Management of a stock listed company, as SVP Global Sales (1B\$ turnover), Group CTO, Corporate Alliance Manager. Lived in USA (Seattle, Silicon Valley), Germany, The Netherlands. Worked in numerous industries, including Automotive, Consumer Electronics, Smart Home, Media, Smart Card, Mobile Payment, Cyber Security, Semiconductors, Components and ICT industries.

Building bridges between business partners, cultural teams, between large corporations and fast start-ups, between technology and sales and between Board and workforce.

13.15-13.40 From the Criticality of Functional Materials to Transparent Supply Chains

Armin Reller 1.2

Tchair of Resource Strategy, University of Augsburg, Universitätstrasse1a, D-86159, Augsburg, Germany, ²IWKS, Fraunhofer Project Group Materials Recycling and Resource Strat., D-63755, Alzenau, Germany

In advanced technical devices like mobile phones, laptops, cars, planes, etc. an ever increasing number of highly specific materials are assembled in order to fulfill appropriate functions. Many of these functional materials contain different metal species in various forms, most often in relatively tiny amounts or concentrations. Guaranteeing the supply of all these functional materials affords transparent supply chains and safe supplier frameworks. If it comes to the implementation of new technologies the said arguments become even more relevant. The criticality is a tool for analyzing and validating inherent criteria of the efficient usability of primary resources, i.e. of raw materials, but also of secondary resources. These qualitative and quantitative criteria or indicators comprise e.g. accessibility, scarcity, availability, technical specificity, socio-economic and ecologic issues, socio-cultural conditions, geo-political settings, etc. As a matter of fact the minimization of the dissipation of valuable materials and resources is discussed

13.40-14.00

The potential of (big) data collection throughout the supply chain for sustainability management

Willem Bulthuis

¹WBX Consulting, Germany

Actively managing the acquisition, use and re-use of critical materials in products and processes requires factual information. Statistics and models form a good starting point, but even better would be factual information from each individual supply chain, which is specific (for each product and each supplier), actual (even for every batch) and is aggregated throughout the whole supply chain. While this currently still seems not feasible, the increasing digitalization of all production and logistics processes will enable such approaches in the future. Examples of such Sustainability Management approaches will be discussed.

MONDAY 18 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G3: Critical Materials in Design, Manufacturing and Recycling

ROOM | ARTIST CAFÉ/M1

CHAIR | Margarethe Hofmann



Dr.-Ing. Margarethe Hofmann

FEMS Immediate Past President (2016 - 2017) CEO, Mat Search Consulting Lausanne, Switzerland

Margarethe Hofmann-Amtenbrink started her activity in 1968 as Assistant for Metallography and worked in industry for 6 years. She then studied foundry technology in Duisburg and materials science at Technical University Berlin and received her PhD in materials science at Max Planck Institute Stuttgart and Technical University Berlin, Germany.

Since 1987, when she started her own business (Mat Search Consulting Hofmann) in Switzerland, she is active in various consulting activities for industry, she was Managing Director and of various Swiss Societies, the Swiss Governmental Priority Program for Materials (PPM), the Foundation for Rare Metals, and Chairperson of the Biotechnology Programme at the AO Foundation, Davos Switzerland. Since 7 years M. Hofmann-Amtenbrink is member of the Executive Committee of the Federation of European Materials Societies, FEMS, and since 2012 Vice President, President and now Immediate Past President of FEMS for always two years. Beside other conferences she organised scientific sessions at FEMS EUROMAT conferences since 2013 and was the chair of the organisation committee of FEMS Junior Euromat 2016 at EPFL, Lausanne Switzerland. M. Hofmann was the representative of FEMS in European Projects like MatVal and MATCH (Materials Common House) and is partnering with MatSearch in HORIZON2020 Projects like e.g. FORAM and scientific coordinator of two large European projects (FP5 and FP7) in the field of nanoparticles for health applications. M. Hofmann is individual member of the Swiss Academy for Engineering Sciences, SATW, Switzerland was member of various Scientific Advisory Boards, e.g. EA European Academy of Technology and Innovation Assessment, Germany; Helmholtz-Zentrum Geesthacht, Germany; Competence Center for Applied Biotechnology and Molecular Medicine, Switzerland. She was awarded by the Rodolphe and Renée Haenny Award in 2005 in Switzerland.

14.00-14.10

Materials: the important part in the system whole value chain

Margarethe Hofmann-Amtenbrink

¹MatSearch Consulting Hofmann, Pully , Switzerland

There is an increasing demand on defined functional and advanced materials for the changing requests in energy, mobility, communication, health etc. Such materials are composed of a variety of elements and components, they are more sophisticated in design and they need various steps in the manufacturing and finishing of the system.

Today some of the products contain more than 50 elements. Some of these elements are indispensable for the function and difficult to substitute. Many of the raw materials are mined only in some countries and are therefore subject to supply risk and a large price fluctuation.

Materials research and development is part of the whole value chain of materials in a system and it might be useful to reconsider it in a frame like the Circular Economy from the raw materials through design and process steps to recycling and reuse. The presentation will highlight the needs and constrains for a reorientation of research policy in materials science.



Dr. Roland Gauß

Thematic Officer Substitution and Recycling EIT RawMaterials GmbH Europa Center Berlin, Germany

Dr Roland Gauß is a Thematic Officer at EIT RawMaterials which is a pan-European Knowledge and Innovation Community (KIC) that involves more than 110 partners from industry, universities, and research organisations. He is responsible for the thematic areas of substitution of critical, toxic, and low performance materials as well as of recycling. In 2016, he joined the EIT RawMaterials KIC from Fraunhofer Project Group Materials Recycling and Resource Strategies IWKS in Hanau, Germany where he worked as Head of Department Functional Materials with the Business Units Magnetic Materials, Energy Materials, and Lighting. His personal research interest is related to metallurgy, the life cycles of materials, and how innovation processes are triggered and pursued by society. Roland Gauß was a research fellow at TU Bergakademie Freiberg (2004) and a Marie-Curie-Research-Fellow at University College London (2006). He received his PhD from the University of Tübingen in 2008 in the fields of economic geology of copper and extractive metallurgy in prehistoric societies.

14.10-14.35

Critical raw materials in energy technologies and future mobility

Roland GAUB¹

¹EIT RawMaterials GmbH

The transition towards renewable energy and e-mobility are vital components in establishing a Green Economy. This transition in mobility and energy use comes with a fundamental shift in raw materials use. Today, the accessibility and sustainable supply of critical raw materials directly impact the production and cost of advanced materials which form the basis for a number of latest green energy and mobility technologies. The presentation will discuss recent technological developments in the fields of energy storage and permanent magnet electric drives from a raw materials supply and demand perspective. Key elements of concern are cobalt and rare earth metals. The presentation highlights possible risk mitigation strategies and example projects of the EIT RawMaterials portfolio that follow these lines

EUROMAT2017 45

TUESDAY 19 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G1: Competences and basic knowledge in the ICT ER

ROOM ARTIST CAFÉ/M1

CHAIR | Paloma Fernández Sánchez



Dr. Elena Maria Tejado Garrido

Universidad Politecnica de Madrid Madrid, Spain

Dr. Elena Tejado earned her Ph.D. in Materials Engineering at Universidad Politecnica de Madrid in 2017, where she is actually an Assistant Professor at the Department of Materials Science. Her thesis was based on the fracture mechanical properties of tungsten based materials at extreme conditions. During her Ph.D. studies, she performed a stay at the Department of Materials Science of the Oxford University (UK). At this moment, she is the author of 10 scientific peerreviewed publications and her scientific work has been reported at more than 50 international congresses.

Her current research areas of interest include the characterization of materials at the nano and micro scale. The materials studied are mainly for energy applications, especially refractory alloys for fusion devices, composites, and coatings. Areas of current research include: fundamentals of fracture; High temperature mechanical properties (i.e. flexural, tensile and fracture properties) under special atmospheres (high/low temperature, high vacuum...) and up to temperature above 1500K; Micromechanics of metals and ceramics by means of instrumented indentation; Surface behavior of materials at high temperature by means of tribology studies; Microstructural analysis of materials (Scanning electron microscopy, EDX, EBSD, high temperature XRD...).



Dr. Teresa Palacios García

Technical University of Madrid Madrid, Spain

Teresa Palacios García is an assistant professor at Technical University of Madrid. Her research is focused on determining the microstructural and mechanical properties of materials, mainly W-based alloys at high temperatures. As an assistant professor, she has implemented several education innovation methodologies as the flipped-classroom, the creation of a MOOC or the implementation of project-based learning methodology in a Materials Selection Course

13.15-13.35

The development of a Massive Open Online Course to analyse experimental data

<u>Elena Tejado</u>, Teresa Palacios₁, Jose Ygnacio Pastor₁, "Departamento de Ciencia de Materiales-CIME, Universidad Politécnica de Madrid, Madrid, Spain

Are your experimental results believable? Are they "accurate"? Can you handle all the numerical data around you?

To answer those questions it is essential to have the right tools for a simple analytical insight of the results, while optimizing the measurement process. Engineering and science undergraduates perform routine error calculations in the physics laboratory towards this end; nevertheless this knowledge is restricted to official university students. Hence, opening the understanding of these techniques to the entire world will be of a great interest. Massive open online courses (MOOCs) have global reach, unlimited participation, and free access over the internet via a combination of social networking and video podcasts. Regarding those strengths, we have developed an Analysis of Experimental Data MOOC.

This talk addresses the development, from the very beginning of this M00C as well as recommendations based on our experience and on the research we conducted to prepare for our M00C design.

"To err is human; to describe the error properly is sublime."

-- Cliff Swartz, Physics Today 37 (1999), 388.

13.35-13.55 Implementing project-based learning for materials selection

T Palacios¹, E Tejado¹, JY Pastor¹

Departamento de Ciencia de Materiales-CIME,
Universidad Politécnica de Madrid, Madrid, Spain

A new pedagogical approach called the project-based learning was implemented. Here, we report our experience with students of a Materials Selection Course where they had to work in randomly-selected teams to conduct a project. The goal of the project was to select a material to manufacture an already existing product by introducing an improvement (mechanical, physical, environmental...). The adopted teaching approach was based on the project-based learning methodology, a student-centred pedagogy that involves a dynamic classroom methodology to gain knowledge and skills through active exploration of real challenges. It allows to enhance collaboration among members of the same team as well as the competition among different teams of students.

As a result, we have observed a higher level of involvement of the students than in previous years and therefore the development of very interesting projects.

TUESDAY 19 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G1: Competences and basic knowledge in the ICT ER

ROOM | ARTIST CAFÉ/M1

CHAIR | Paloma Fernández Sánchez



Prof. Pedro Gamito

Head of the Computational
Psychology Laboratory
Lusophone University

Lisbon, Portugal

Pedro Gamito earn his PhD from the University of Salford in the UK with a specializing in Information Technology in 2002, and the title of Aggregate in Rehabilitation by the University of Lisbon in 2012. Pedro is a Professor and the Director of the Psychology Computational Laboratory at the School of Psychology and Life Sciences of University Lusófona and senior researcher at COPELABS - Cognitive and People –centric Computing Laboratories, where he is also a vice-director. Since 2016, he is resident consultant at Instituto de Soldadura e Qualidade, in Portugal. He has been engage in a number of VR-based simulation projects under EU financing schemes.

13.55-14.15

Implementation of advanced technologies into Aeronautic integrated maintenance concept - Use of virtual reality in ground-floor training maintenance execution

MSc Nelson Matos¹, PhD Pedro Gamito¹, Joel Ferreira², Luis Oliveira², Margarida Pinto¹ 1/SQ, Portugal, ²TAP Portugal - ME, Portugal

In the Maintenance aviation industry, Repair and Overhaul (MRO) procedures still rely on 2D support to assist practitioners in learning and training MRO tasks. These tasks are, no more than complex actions that require a 3D insight in order to be quickly and comprehensible absorbed. Virtual Reality (VR) apps are potentially a suitable option to turn these procedures closer to reality and, hence, better adequate in improving competences and skills.

Under the EU Clean Sky 2 Joint Undertaking programme, the AIRMES project

is following this concept applied to maintenance execution by developing a VR app to help practitioners in the process of carrying out specific maintenance activities as removing and positioning components into aircraft structures. The system is a VR-based platform that uses a smartphone and a portable motion capture device coupled with a head mounted device. This mobile solution will allow practitioners to learn and to train onsite on how to proceed with the maintenance operations. An immersive and



interactive environment displays the host aircraft structure section with the component and associated system parts, in which the 3D component can be removed by virtual hands that emulate, through the motion capture device, the hands of the user (Figure 1 – VR interactive system for aeronautical MRO operations).

The system in development will provide high level training and reliable information to the technician on the maintenance operations for a dedicated situation and facilitate the identification and execution of the procedure to be applied, improving the time for repair.



Prof. Paloma Fernández Sánchez

Departamento de Física de Materiales Facultad de Ciencias Físicas Universidad Complutense de Madrid Madrid, Spain

I am a member of the Department of Materials Physics at the Faculty of Physics in University Complutense of Madrid since 1986, when I incorporated as Assistant and worked for my PhD. I obtained a permanent position in 1992 and the Professorship in 2007.

Presently, the research of my group (Grupo de Fízsica de Nanomateriales Electrónicos, FINE) is focused on the study of nanocrystalline semiconductors and their optical and electronic properties. I have also a research line focused on Materials Science Education, with special attention to Collaborative Work Strategies, Project and Game based Learning.

I am member of several scientific societies, at present Immediate- Past President of the Spanish Materials Society (SOCIEMAT), that I have chaired from January 2007 to January 2017 and Vice-president of the Federation of European Materials Societies (FEMS).

14.15-14.35

Web tools to foster creativity and autonomous learning: Collectables as learning tools

A.F. Aguilar¹, C.S. Amores¹, V. A. Cabezas¹, J.A. López-Orozco², <u>P. Fernández</u>³

¹Facultad de Informática, Universidad Complutense, ²Departamento de Arquitectura de Computadores y Automática, Facultad de Ciencias Físicas, Universidad Complutense, ³Departamento de Física de Materiales, Facultad de Ciencias Físicas, Universidad Complutense

The use of games as learning tools is very extended in the lower education levels, especially in the Primary School. However, as we move to higher levels of education, games are scarcely used, and in the few occasions in which they are used are normally not linked to syllabus but seen as a padding activity, without any role in evaluation or core material. In this progression, when the University is reached, game has been completely abandoned as a learning tool, moreover it is considered as a waste of time. But the game dynamic has a series of characteristics which confer a great versatility to develop different competences, considered of the major importance in the present Society.

Two main aspects could be considered, which connect directly to two different game modalities, in both cases offering an enormous potential to be applied in the classroom. Competitive games help to learn how to tackle with unfavourable situations, to design more efficient strategies (winner strategies) and to develop the critical thinking. In the collaborative approach, group skills, resource managing, or negotiation strategies are reinforced.

TIC-TAC: COLECCIONA, reproduces a virtual collecting environment, in which through the solution of questions or small challenges, the students may collect all the elements of an "ad hoc" created set. The collectables are designed, in principle by the teacher, to fit the level and the contents of the imparted subject, and may be also used to elaborate additional support material for students. The collaborative side is introduced, allowing the students to Exchange elements. Finally, and that is very important to promote learning, there is not a single winner, but any student completing the collection is a winner.

WEDNESDAY 20 SEPTEMBER 2017

TIME: 12:00 - 13:30

Symposium G2: Key materials field for modern curricula

ROOM

3.20/M1

CHAIR

Hariton Polatoglou



Prof. Arash Mostofi

Director, CDT in Theory and Simulation of Materials Imperial College London, UK

Arash Mostofi is an Associate Professor in the Departments of Materials and Physics at Imperial College London. He is Director of the Centre for Doctoral Training in Theory and Simulation of Materials at Imperial College London and of the Thomas Young Centre, the London Centre for Theory and Simulation of Materials.

Arash leads a research group that is dedicated to the application and development of theory and computational tools for studying problems in materials. He is an original author and developer of two major electronic structure simulation codes, ONETEP and Wannier90, used by research groups worldwide. His research interests span a broad range of phenomena and materials, including charge transport and screening in low-dimensional materials, structure-property relations in perovskite oxide thin films and interfaces, and polymer membranes for separation processes.

Arash graduated with a first class degree in Natural Sciences (2000) and a PhD in Condensed Matter Theory (2004), both from the University of Cambridge. Immediately before joining Imperial College London in 2007 he was a post-doctoral researcher at the Massachusetts Institute of Technology.

12.00-12.25

The Centre for Doctoral Training in Theory and Simulation of Materials

Dr Arash Mostofi

¹Director, Centre for Doctoral Training in Theory and Simulation of Materials, Imperial College, London

Materials underpin every modern technology, from electronic devices and telecommunications to nuclear reactors and high-performance jet engines, and Advanced Materials have been identified by the UK Government as one of the "eight great technologies" [1] that will propel future growth of the economy. Many important phenomena in materials span a range of length- and time-scales. These different scales, however, are traditionally confined within separate disciplinary silos, each with their own methods and language, which can have the effect of hindering multi-disciplinary collaboration.

The EPSRC[2] Centre for Doctoral Training (CDT) in Theory and Simulation of Materials (TSM)[3] at Imperial College London was established in 2009 with the mission to create a new generation of scientists and engineers with the theoretical and computational abilities to model properties and processes in materials across a range of length- and/or time- scales. To date, the Centre has recruited over 100 students in eight cohorts, supervised by over 70 supervisors at Imperial and 16 external organisations (including industry, research institutes and national laboratories).

In this talk I will discuss the added value brought by a Centre-based model for doctoral training, giving examples from my experience with the CDT in TSM, and I will highlight one or two examples of the transformative research that it has enabled.

[1] https://www.gov.uk/government/speeches/eight-great-technologies [2] Engineering and Physical Sciences Research Council; www.epsrc.ac.uk [3] www.tsmcdt.org



Prof. Hariton Polatoglou

Aristotle University Of Thessaloniki Faculty of Sciences, School of Physics Thessaloniki, Greece

Dr. Hariton Polatoglou is a Professor of the Solid State Physics Department of the School of Physics of the Aristotle University of Thessaloniki (AUTH) and is head of the EPG (Electronic Properties Group) and the Laboratory for Physics Didactics and Educational Technology (EDIFET). He obtained a BSc in Physics (1977) and MSc in Physical Electronics at the Aristotle University of Thessaloniki. At the same university he completed his PhD thesis on the electronic properties of binary compounds with an average valence of 5. As a post-doc he worked at the Institute for Solid State Research in Stuttgart, the Fritz Haber Institute in Berlin, the Physical Chemistry Department in Cambridge and the Materials Science Department in Oxford. Fields of interest include: Theoretical Solid State Physics, ab-initio, semi empirical methods, and finite element methods to study the structural, electronic, and optical properties of metallic and semiconductor alloys, and of nanostructures such as quantum wires, quantum dots, and surfaces, statistical physics methods to study the thermodynamic properties of the above structures, assistive technologies for the disabled tertiary students, standardization, quality systems, optimization, didactics of Physics, educational technology, computer modeling and simulation.

12.25-12.50

Material properties and simulations of thermal transfer processes for introducing sustainable development subjects into the curricula

<u>Prof. Hariton Polatoglou</u>¹, Mrs Stamatia Artemi, Mrs Anthoula Maidou¹ *Aristotle Univ. Of Thessaloniki, Thessaloniki, Greece*

Education for Sustainable Development (ESD) is of universal importance and one of the main strands of UN's Framework 2030 for education. The introduction of subjects related to ESD in curricula is a difficult task as they are: a) interdisciplinary in nature, b) include scientific subjects that are not normally taught at schools or universities, c) are related to real-life situations, d) many times involve material properties and e) involve processes which have complicated mathematical description. The thermal behavior of structures like houses, schools etc. is crucial to the sustainable development and in addition building are places where people, students and educators experience every-day. Despite its the importance, the subject it is not included in the curricula for reasons stated above and like other ESD subjects. One important characteristic of the subject is, that it involves to a great extend materials, their properties and their thermal behavior. In this work, we propose that computer simulations can facilitate the introduction of ESD subjects to curricula of different levels of education and to lifelong education. As an example, we present a set of computer simulations with the aim study the thermal processes that occur in buildings and the role of materials properties in these processes. Grounded on that, one can explore how different materials can be utilized to design and build systems that contribute to the goal of sustainability. These simulations can be used as an integral part of a curriculum subject or as independent entities in many situations and scenarios which could be incorporated in existing subjects.

WEDNESDAY 20 SEPTEMBER 2017

TIME: 12:00 - 13:30

Symposium G2: Key materials field for modern curricula

ROOM | 3.20/M1

CHAIR | Hariton Polatoglou



Prof. Jean-Pierre Bucher

Institut Universitaire de France IPCMS. UMR 7504 CNRS Université de Strasbourg, France

Jean-Pierre Bucher has been a full professor at Universy of Strasbourg since 1994.

He got a PhD from the Ecole Polytechnique Fédérale de Lausanne working on quantum size effects in metal clusters. Then he was an advanced research fellow from the Swiss Science Foundation at University of Virginia (1989): work on magnetic properties of atomic clusters by Stern-Gerlach deflection. KFA-Jülich, invited scientist: work in surface science with G. Comsa. EPFL (1992), research scientist with K. Kern, exploring new ways of nanostructuring surfaces. JPB has developed new spectroscopic approaches both, in SG and near-field microscopy experiments. He is co-author of 140 articles and book chapters. His research interest focuses on molecular nanoscience, in particular spin polarized transport through single objects in STM junctions with the main objective of furthering knowledge on nanosystems exhibiting multifunctional behavior. He was nominated a senior professor of the Institut Universitaire de France in 2010 and he is presently the director of the Doctoral School for Physics and Chemical Physics at the University of Strasbourg.

12.50-13.15

A Doctoral School in Advanced Material Science: from Recruitment of PhD Students to Professional Integration

Bucher Jean-Pierre¹

¹University of Strasbourg, Assoc Institut de Physique et Chimie des Matériaux

In this presentation, emphasis will be put on the training and follow-up of PhD students in material science. In particular, suggestions will be given on (i) how to make researchers and supervisors participate in the training process so that the whole community feels concerned with this issue. (ii) Favor international opening in the PhD curricula: PhD in cotutelle, participation in international programs. (iii) Organization and promotion of events dedicated to PhD students, such as thematic days, summer/winter schools and the Doctoriales. (iv) The role of the follow-up committee; the mid-term PhD presentation and the thesis defense. (v) Integration in the real world: the skillsportfolio, the link with the world of industry, job opportunities, employment statistics and the alumni network. The case of the Doctoral School of Physics and Physical-Chemistry of Strasbourg will serve as an example in the general context of the IdEx and LabEx programs of the University of Strasbourg as well as Eucor — the European Campus.

FUROMAT2017

THURSDAY 21 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G4: Transferable skills for Masters and PhD's in Material science

ROOM ARTIST CAFÉ/M1

CHAIR | Heinrich Hofmann



Dr.- Ing. Flavio Soldera

EUSMAT General Manager
Dept. Materials Science & Engineering
Saarland University, Saarbruecken, Germany

Flavio Soldera (Dr.-Ing.) was born in Argentina, in 1973. He studied Mechanical Engineering at the Comahue National University in Argentina, obtaining his Engineering degree in 1997. In 2005 he obtained his PhD in Materials Science and Engineering from the Saarland University in Saarbrücken (Germany), being supported by a scholarship of the German Academic Exchange Service (DAAD).

His scientific interest includes: advanced materials for electrical application: 3D analysis of micro / nano structures; and electron microscopy and focused ion beam applications.

Since 1998 he is affiliated to the Saarland University, having co-authored 60 perreview publications. Since 2005 he is coordinating international study and research programs in the field of Materials Science and Engineering and since 2008 is the general manager of the European School of Materials (EUSMAT). Among others projects, he coordinates the Erasmus Mundus programes AMASE (Master) and DocMASE (Doctorate) as well as the RISE project CREATe-Network. Several projects of the European Commission, the DAAD as well as the German French University are part of the portfolio of EUSMAT. From 2012 he is also deputy director of the Steinbeis Transfer Institut CaMPlusQ, dealing with "on-the-job" Master studies and from 2017 is part-time researcher at the Steinbeis Materials Research Center Saar.

13.15-13.40

Multilingualism and intercultural skills support the internationalization in Materials Science and Engineering

Dr.-Ing. Flavio Soldera¹, M.A. Claudia Heß¹², Prof. Dr.-Ing. Frank Mücklich¹
¹European School of Materials, Department Materials Science and EngineeringSaarland
University, Saarbrücken, Germany, ²Romanische Kulturwissenschaft und Interkulturelle
Kommunikation, Saarland University, Saarbrücken, Germany

The demand for social skills of students and graduates of technical studies, particularly in Europe, has been increasing continuously in the last years, mainly caused by the current social context: rapid changes and increased globalization, growing social complexity (multicultural and less uniform society), increased and varied migration flows, increased mobility (professional and geographical) of individuals, and finally the demographic structure represented by an aging population. Some demanded skills are multilingualism, intercultural communication capabilities, intercultural sensitivity, presentation abilities, team work and independency. These skills can be learned theoretically in lectures and in practical work, but mainly through the self-experience of students when they are confronted to real demanding situations, like for instance during an international exchange. At the programs of the European School of Materials (EUSMAT) we follow the different ways. On one side we have integrated language courses and training on intercultural communication in the study curricula, and on the other side the students have to spend a compulsory study period abroad. We will present the different programs of EUSMAT at Bachelor, Master and PhD level (see Fig. 1), as well as the different tools that we apply to support the mobility and the training on social competencies. One main distinctiveness of our programs is the multilingualism: all our students need to command at least two languages out of English, German, French and Spanish. We will present our language policy and discuss how we support the students to manage learning technical subjects in two languages and which are the positive effects for their later development. Moreover, we will demonstrate that our programs are attractive, even though the solely English command is not enough for the success. Finally, we will focus on the benefits and challenges of international study programs for students, for teachers, universities and the society.



THURSDAY 21 SEPTEMBER 2017

TIME: 13:00 - 15:00

Symposium G4: Transferable skills for Masters and PhD's in Material science

ROOM

ARTIST CAFÉ/M1

CHAIR

Heinrich Hofmann



Prof. Emmanuel P. Giannelis

Walter R. Read Professor of Engineering Materials Science and Engineering Department Cornell University, USA

Emmanuel Giannelis is the Walter R. Read Professor of Engineering and the Associate Dean for Research and Graduate Education in the College of Engineering at Cornell University. His research interests include Nanomaterials for Energy, Biomedical, and Environmental Applications. His group is internationally recognized as one of the leading groups in nanohybrids and nanocomposites. He is a Fellow of the American Chemical Society and of the Polymer Materials Science and Engineering Division of the American Chemical Society. He has won the 2014 Cooperative Research Award from the American Chemical Society, and he is a member of the European Academy of Sciences.

13.40-14.05

A Program to Catalyze Innovation and Entrepreneurship at Research Universities

Emmanuel P. Giannelis¹

Cornell University, Department of Materials Science and Engineering, Ithaca, NY 14853, United States

A new initiative to increase the volume, velocity, and success rate of technology commercialization and start-up creation by affecting a culture shift from academic to entrepreneurial at Universities and Research Institutes will be presented. The initiative provides researchers with experiential learning opportunities and resources to de-risk technologies both technically and commercially with the ultimate objective of increasing start-up creation, industry engagement, and technology translation. The ultimate objective is to stimulate entrepreneurship and enhance future economic development and growth. The initiative is based on three main pillars: 1) an experiential learning program for PhD students and postdocs in Science and Engineering to work one-on-one with mentors and coaches to identify potential markets and build the business case for their technologies, 2) resources and expertise to de-risk technologies both technically and commercially; and 3) start-up creation through a new program that requires participants to launch their companies while supported by the program.

Modern economy is driven by technology and innovation and science and engineering are at the center of the technological innovation. Over the years science and engineering have been responsible for stimulating high-growth economic activity all over the world. Traditional companies are changing rapidly and new ones emerge as a result of new technologies. To become competitive in the knowledge/innovation economy we need to develop the workforce with the appropriate training, skills, culture, and mindset. Though technical advances are common in established companies, disruptive innovation is typically associated with start-ups. Regardless, as product life cycles shrink and the need for high productivity intensifies product development cycle times need to be shorten. Researchers, who combine in-depth science and technology training with entrepreneurial mindset, will provide the future industry innovators in both startups and established corporations.



Prof. Heinrich Hofmann

Powder Technology Lab EPFL Lausanne, Switzerland

Hofmann Heinrich, Prof. Dr.-Ing. Studied Material Science and Engineering at the Technical University of Berlin. 1983 he got his PhD in Material Science with a thesis prepared at the Powder Metallurgy Laboratory at the Max Planck Institute in Stuttgart. In 1985 he joined the R&D center of Alusuisse-Lonza Services AG, at Neuhausen-am-Rheinfall. He developmed new alumina, titania stabilized zirconia and silicon nitride powders for ceramic applications. 1993 he joined the Swiss Federal Institute of Technology (EPFL) as Professor and Director of the Powder Technology Laboratory at the Department of Materials Science and Engineering. His research area includes the synthesis of nanostructured materials based on nanoparticles and the modification of surfaces with nanoparticles using colloidal methods. He is a cofounder of ANTIA Therapeutics a company developing nanocomposites for cancer treatments. His publication list comprises over 170 publications in reviewed journals, 33 publications in proceedings, co-author of 8 books and he is co-inventor of 15 patents or patent applications.

14.05-14.30

Successful development of nanomaterials for medical applications: Necessary skills and knowledge

Heinrich Hofmann¹

¹Ecole Polytecnique</sup> Fédérale de Lausanne, Institute of Materials, Powder Technology Laboratory, Lausanne, Switzerland

Nanotechnology and especially nanomaterials have still an interesting potential for the development of new materials and applications. Beside electronic devices and coatings, medical applications of nanomaterials is one of the most investigated field. Interestingly is the fact, that independently of the huge amount of money invested into this area of research, only a very few number of products are reaching the clinics. In the field of inorganic nanomaterials, like nano-sized iron oxide for cancer treatment, as contrast agent for MRI, not one product is today fully accepted on the market. Working since more than 20 years with nanoparticles the author will give an overview of the needs that are, beside a very good understanding of material science, necessary to start and to bring the research and of such biomaterials ahead. It will be shown, that we have to understand first the needs of the patients and we have to transfer this needs into the right scientific questions to solve the diagnostic or therapeutic challenges. In parallel regulations in the field of pharmaceutical products, the standards for characterization and the situation regarding the IPR have to be evaluated. It is important to show that for synthesis and characterization of nanomaterials most of the standards and standard operational procedures (SOP) are missing, also the important challenge regarding good manufacturing practice (GMP), an essential guideline to start scale-up for the production of materials for preclinical and clinical trials, are often not taken in account. Therefore, material scientists and engineers have to develop in parallel to new products also the standards and has to develop the scientific base for the decisions of regulatory bodies. This very complex and multidisciplinary environment for the development of new (nano) materials for medical application is challenging and demands several important transferable skills to be successful.

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iPROMEDAI Young Scientist Forum

| SUNDAY 17 SEP | TEMBER 2017 | TIME : 09:30-18:30 |
|---------------------|---|---|
| ROOM: CR II Hall/M2 | | |
| CHAIRS: | Medical Center at the Amsterdam, The Net Aldona Mzyk – Instit | of Medical Microbiology, Academic De University of Amsterdam, herlands – m.riool@amc.uva.nl tute of Metallurgy and Materials emy of Sciences, Krakow, Poland email.com |

| MONDAY 18 SEP | TEMBER 2017 | TIME: 11:00-19:30 |
|--|-----------------------|--|
| R00M: | Artist Café/M1 | |
| CHAIRS: | Medical Center at the | t. of Medical Microbiology, Academic e University of Amsterdam, therlands - m.riool@amc.uva.nl |
| Aldona Mzyk — Institute of Metallurgy and Mat Science, Polish Academy of Sciences, Krakow, aldonamzyk@googlemail.com | | lemy of Sciences, Krakow, Poland |

Supported by the TD1305 COST Action iPROMEDAL

The prime objective of the TD1305 COST Action iPROMEDAI is the identification and assessment of recently developed anti-DAI (Device-Associated Infection) approaches in a comprehensive pan-European effort. Understanding and combating DAI is a device-dependent, highly complex and trans-disciplinary challenge requiring collaborations between clinics to define the practical boundary conditions and unmet needs, material and surface engineering to elaborate on enhanced material/drug combination systems, pharmacology and (micro) biology to explore novel antimicrobial active compounds and establish advanced, DAI-relevant test systems in vitro as well as in dedicated animal models.

Goals of the iPROMEDAI Young Scientist Forum

The iPROMEDAL Young Scientist Forum will provide interactive discussion sessions on topics that concern every Early Stage Researcher in the field of Advanced Antimicrobial Biomaterials. It will provide an interactive networking platform to share knowledge on and exchange experience about career opportunities, grant possibilities, scientific communication as well as work for/collaborate with industry.

It will be an unique opportunity for the participants to:

- present their research interests
- learn about grant opportunities
- find other ESR partners for collaborative projects
- learn how to set up collaboration with industry
- be guided how to build your scientific career and network
- improve your scientific communication
- meet and establish cross-border contacts

| | SUNDAY 17th SEPTEMBER | | | |
|---------------|---|-------------------------------------|--|--|
| 09:30 - 10:00 | Registrati | on | | |
| 10:00 - 12:15 | Session 1 – Ice Breaker | Chair: Martijn Riool | | |
| 10:00 - 10:15 | Welcome & general introduction | Aldona Mzyk (PL)/Martijn Riool (NL) | | |
| 10:15 — 12:20 | Introduction talks | All participants | | |
| 12:20 - 15:50 | Session 2 – Science & Communication | Chair: Martijn Riool | | |
| 12:20 - 13:00 | From an editorial board point of view | Jolke Perelaer (DE) | | |
| 13:00 - 14:30 | Lunch br | reak | | |
| 14:30 - 15:10 | Scientific communication | Monika Aksamit-Koperska (PL) | | |
| 15:10 — 15:50 | Q&A | Speaker panel | | |
| 15:50 — 16:10 | Coffee & tea | a break | | |
| 16:10 - 18:30 | Session 3 — Funding Experience | Chair: Aldona Mzyk | | |
| 16:10 - 16:40 | Experience from a grant awardee: ESR | Daniela Boehm (IE) | | |
| 16:40 — 17:10 | Experience from a grant awardee: Senior Scientist | Yannis Missirlis (GR) | | |
| 17:10 — 17:50 | From a referee point of view | Kostantin Sipos (FR) — live stream | | |
| 17:50 — 18:30 | Q&A | Speaker panel | | |
| 20:00 | Welcome recepti | on EUROMAT 2017 | | |

| MONDAY 18th SEPTEMBER | | | |
|-----------------------|--|-----------------------------|--|
| 09:00 - 10:30 | Opening EUROMAT 2017 | Plenary session | |
| 10:30 - 11:00 | Coffee & tea break | | |
| 11:00 - 13:00 | Session 4 – Funding Possibilities for ESRs | Chair: Aldona Mzyk | |
| 11:00 - 11:30 | Overview (inter)national funding possibilities | Aldona Mzyk/Martijn Riool | |
| 11:30 - 12:10 | ERC & Marie Skłodowska-Curie Fellowships | To be announced | |
| 12:10 - 12:45 | Q&A | Speaker panel | |
| 12:45 — 13:00 | Group photo | All participants | |
| 13:00 — 15:00 | Lunch break | | |
| 15:00 - 17:00 | Session 4 – From Academia to Industry | Chair: Aldona Mzyk | |
| 15:00 — 15:40 | Young entrepreneur view from a start-up company | Mateusz Dylag (PL) | |
| 15:40 — 16:20 | Career paths in science view from a large company | Ricky Woofter (US) | |
| 16:20 - 17:00 | Q&A | Speaker panel | |
| 17:00 — 17:30 | Coffee & tea break | | |
| 17:30 - 19:30 | Session 5 — Mentorship | Chair: Martijn Riool | |
| 17:30 — 18:30 | Keynote: Building your scientific career and network | Erik Reimhult (AT) | |
| 18:30 — 19:00 | Q&A | | |
| 19:00 — 19:30 | Closure of the meeting | Aldona Mzyk & Martijn Riool | |
| 21:00 | YSF dinner | | |

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SUNDAY 17 SEPTEMBER 2017

ROOM:

CR1/M1, CR3/M2

| Tutorial No | Time | Title | Organizer |
|----------------|---|---|--|
| 1 | 13:30 -1 <i>7</i> :00 | FEMS 30th Anniversary Education Tutorial with Granta Design | Dr. Claes Fredriksson, GRANTA Design,UK |
| 3 | 3 09:00 3D microstructure analysis and tomography in the micro, nano and atomic scale | | Prof. DrIng Frank Mucklich, Saarland University, DE |
| 5 | 5 O9:00 -12:30 Aluminium Metallurgy, Processing and Application in automotive design | | Drlng. Jurgen Hirsch |
| 7 | 16:30 -19:00 | Opportunities for Start-ups in Materials Science and Industry | Willem Bulthuis, Global Executive and Investor |

Matchmaking Event

| WEDNESDAY 20 SEPTEMBER 2017 | | TIME: 09:00-19:30 |
|-----------------------------|--------------|-------------------|
| ROOM: | Foyer, E1/M1 | |

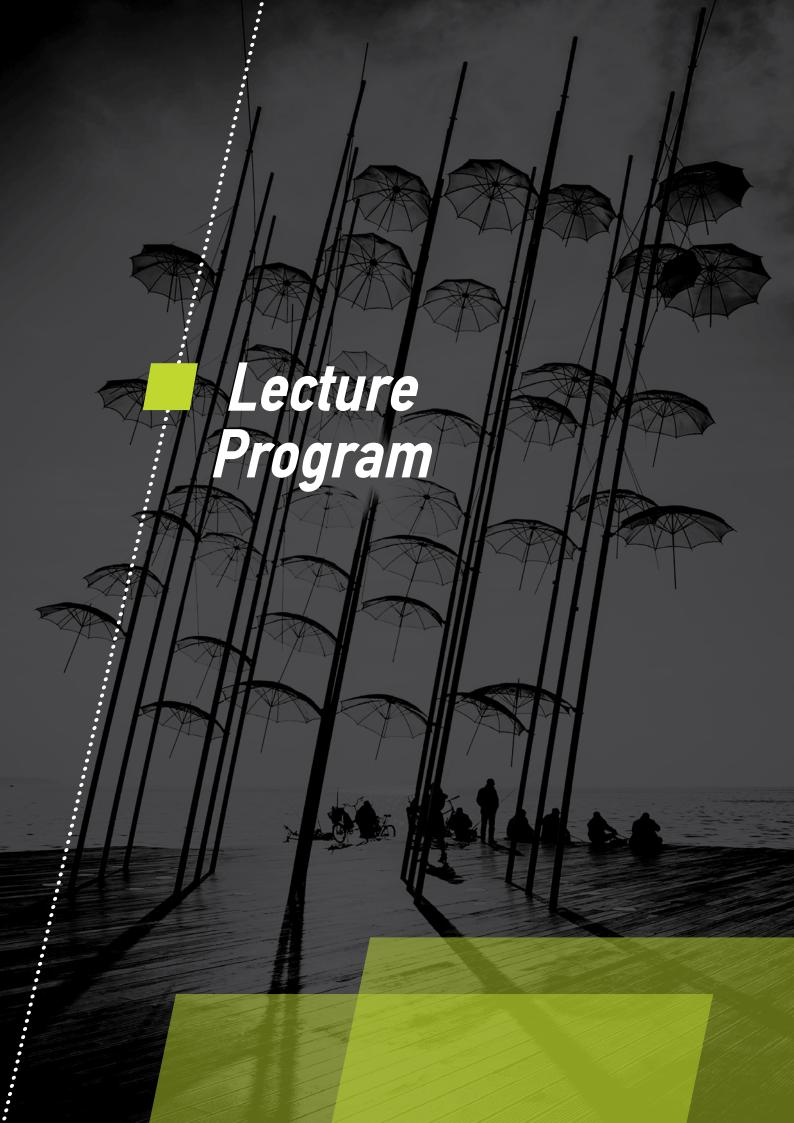
A novelty is introduced during EUROMAT 2017 to boost networking opportunities. Participants are invited to join EUROMAT 2017 Matchmaking Event and further explore new cooperation possibilities.

The Matchmaking Event is organised by PRAXI Network and MIRTEC S.A. (both members of the Enterprise Europe Network - Hellas) in the framework of the European Congress and Exhibition EUROMAT 2017, in order to provide an opportunity for research, technology and business partnerships in the fields of Advanced Materials and Processes.

The event will take place on September 20th, 2017 in Conference Cultural Centre "Thessaloniki Concert Hall", Thessaloniki, Greece.

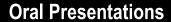
The aim of the Matchmaking Event is to provide a platform for bilateral meetings between technology developers and technology users in order to foster research, technology and business cooperation in the fields of advanced materials and processes.

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Coding Rules

This program is based on the data on September 4th, 2017



A1-H3

Symposium

MON: Monday

TUE: Tuesday

WEN: Wednesday

THU: Thursday

FRI: Friday

Day of presentation

D3 O FRI AM2

Type of presentation

I/K: Invited/Keynote H: Highlight

O: Oral

I/K: 40 minutes

H: 20 minutes

O: 20 minutes

Sessions

AM2: from 11:00 to 13:00

PM1: from 15:00 to 17:00

PM2: from 17:30 to 19:30

Posters

A1-H3

Symposium

TUE: Tuesday THU: Thursday

Day of presentation

B4 | P | THU | P | 28

Type of presentation

Poster

Sessions

Tuesday, from 13:00 to 15:00

P2:

Thursday, from 13:00 to 15:00

Poster number

From 1 to...







| Symposium | AT ZUI7 | A5 | A8 | B2 |
|---------------|---|--|--|--|
| Room | I-11/M1 | MOYSA Hall/M2 | I-08/M1 | Aimilios Riadis Hall/M2 |
| Session Title | Nanostructured polymers I | Nanoparticle Synthesis and applications I | Functional oxides 1 | Opening Session |
| Chairperson | Jean-François GERARD | Antonios Kanaras | Julien Varignon | Michele Manuel |
| | INFLUENCE OF CARBON NANOPARTICLE MOR- PHOLOGY ON THE MECHANICAL AND ELECTRICAL PROPERTIES OF POLYMER NANOCOMPOSITES REGARDING THE SIZE EFFECT | FACILE SYNTHESIS OF LEAD-FREE BISMUTH-BASED C3BI2I9 PEROVSKITE NANOCRYSTALS | KEYNOTE/INVITED EXOTIC ORDERS AND EMERGENT PHENOMENA IN FUNCTIONAL OXIDES | KEYNOTE/INVITED ALUMINIUM, CURRENT AND FUTURE DEVELOPMENT |
| 11.00 | Christian Leopold', Till Augustin', Thomas Schwebler', Jonas Lehmann', DrIng, Wilfried V. Liebig², Prof. DrIng habil. Bodo Fiedler | Postdoc Researcher Nimai Mishra ¹ , PhD student Giuseppe M. Paternó ² , Porf Annamaria Petrozza ² , Researcher Mirko Prato ¹ , Porf Liberato Manna ¹ | . Dr. Jorge Iniguez ¹ | Jürgen Hirsch |
| | Hamburg University of Technology - Institute of Polymer Composites, Hamburg Germany, ² Karlsruhe Institute of Technology - Institute of Vehicle System Technology, Karlsruhe, Germany | 'Istituto Italiano Di Tecnologia, Genova, Italy,' Center for Nano Science and Technology @Polimi, Istituto Italiano di Tecnologia, Milano, Italy | | |
| | MANIPULATION OF CONDUCTIVITY/PERMITTIV- ITY IN GRAPHENE OXIDE BASED INSULATION MATERIALS FOR STRESS CONTROL IN ELECTRICAL APPLICATIONS | THE ROLE OF THE CRYSTAL STRUCTURE IN CATION EXCHANGE REACTIONS INVOLVING COLLOIDAL Cu2SE NANOCRYSTALS | | |
| 11.20 | Dr Emmanuel Logakis¹, Dr Roman Kochetov¹, Dr Alex Skordos² | Graziella Gariano, Vladimir Lesnyak, Rosaria Brescia, Giovanni Bertoni, Zhiya Dang, Roberto Gaspari, <u>Luca</u> <u>De Trizio,</u> Liberato Manna | Luxembourg institute Of Science And Technology, Belvaux, Luxembourg | Hydro Aluminium Rolled Products GmbH, R&D, Bonn, Germany |
| | ¹ABB Corporate Research, Baden-Dättwil, Switzerland, ²Cranfield University, Cranfield, UK | | | |
| | BORON NITRIDE NANOTUBES BASED POLYMER NANOCOMPOSITES FOR STRUCTURAL MATERIALS AND COATINGS | FUNCTIONAL NANOPARTICLES, COLLOIDS AND THIN FILMS FOR BIOIMAGING AND ENERGY APPLICATIONS: Zno, Sio2 and Transition Metal Cluster | UNDERSTANDING EMERGENCE AND ORDER IN LAO/STO HETERO-INTERFACE | HIGHLIGHT CHALLENGES AND POTENTIALS FOR NEXT GENERATION AUTOMOTIVE LIGHTWEIGHT CONCEPTS |
| | V-di-la Madina Dukil Mila Jalukia II Dahara | Director of Research Fabien Grasset ¹ , Dr. Wanghui Chen ¹² , Ms Ngan.T.K. Nguyen ¹² , Dr. Adèla Rengud ³ , Dr. Regionis Diogral ⁴ | Dr. Arghya Taraphder¹ | Prof. Dr. Horst E. Friedrich ¹ , Dr. Elmar Beeh, Gundolf Kopp |
| 11.40 | Yadienka Martinez Rubi! , Mike Jakubinek! , Behnam Ashrafi ² , Jingwen Guan! , Christa Homenick! , Keun Su Kim! , Meysam Rahmat ⁸ , Chris Kingston! , Benoit Simard ¹ | Dr. Adèle Renaud ³ , Dr. Benjamin Dierre ^{1,4} Dr. Noriko Saito ² , Dr. Maria Amela-Cortes ³ , Ms. Noée Dumait ³ , Dr. Yann Molard ³ , Dr. Stéphane Cordier ³ , Dr. Naoki Ohashi ^{1,2,4} , Dr. Tetsuo Uchikoshi ^{1,2,4} | | |
| | 'Security and Disruptive Technologies Portfolio, National Research Council Canada, Ottawa, Canada, 'Aerospace Portfolio, National Research Council Can- ada, Montreal, Canada, 'Aerospace Portfolio, National Research Council Canada, Ottawa, Canada | Cnrs. Tsukuba. Japan. ² Research Center for Functional Materials. NIMS. Stakuba. Japan. ³ ISCR UMR 6226 CNRS-University of Rennes. ³ . Rennes. France. ⁴ NIMS-Saint-Gobain COE for Advanced Materials. Tsukuba. Japan | 'Indian Institute Of Technology, Kharagpur , Kharagpur, India | Deutsches Zentrum Für Luft- Und Raumfahrt (dtr) E.v., Stuttgart, Germany |
| | NANOMECHANICAL CHARACTERIZATIONS BY AFM TO UNDERSTAND THE STRUCTURE AND BEHAVIOR OF POLYMER BLENDS COMPATIBILIZED WITH IONIC LIQUIDS | INVESTIGATION OF THE ELECTRONIC PROPERTIES OF NANOPARTICLE BASED POROUS STRUCTURES | TUNNELING ANISOTROPIC MAGNETORESISTANCE IN COMPLEX OXIDE TUNNEL JUNCTIONS | HIGHLIGHT A COST EFFECTIVE 55KG PER VEHICLE LIGHT-WEIGHTING SOLUTION, MAGNA'S ULTRALIGHT FUNCTIONALLY INTEGRATED ALUMINUM DOOR |
| | Benjamin Megevand', Dr. Sébastien Pruvost', Pr. Jannick Duchet-Rumeau' | <u>Jan F. Miethe</u> ^l , Franziska Lübkemann ¹ , Dr. Jan Poppe ^l , Dr. Nadja C. Bigall ¹ | Prof Benjamín Martnez', <u>Ms Laura Lopez-Mir</u> ', Dr Re- gina Galceran', Dr Lluis Balcells', Dr Alberto Pomar', | · Tim Skszek |
| 12.00 | ¹Université de Lyon, INSA Lyon, UMR CNRS 5223, | | Dr Carlos Frontera ¹ | |
| | Ingénierie des Matériaux Polymères, 69621 Villeurbanne, France | 'Leibniz Universität Hannover, Hanover, Germany | ¹Icmab-csic, Bellaterra, Spain, ²Unité Mixte de Physique, CNRS, Thales, Palaiseau, France, ²Center for Solid State Physics and New Materials Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia | Magna R&D |
| | EXPERIMENTAL CHARACTERIZATION OF MAGNE- TO-RHEOLOGICAL ELASTOMERS FOR MODELING PURPOSES | | MAGNETOELASTIC COUPLING IN EUTIO3 AND IN ITS MIXED CRYSTALS WITH S/TIO3 - POSSIBLE CANDIDATES FOR NOVEL FUNCTIONALITIES | HIGHLIGHT EMERGING APPLICATIONS – THE WIDER APPLICATION OF MAGNESIUM ALLOYS IN CIVIL AIRLINERS AND ROTORCRAFT |
| 12.20 | Dr Laurence Bodelot ¹ , Jean-Pierre Voropaieff ¹ | | Prof. Jürgen Köhler ¹ , Prof. Annette Bussmann-Holder ¹ | <u>Dr Sarka Jeremic</u> , Martyn Alderman¹, |
| | 'Ecole Polytechnique, Palaiseau, France | | *Max-Planck-Institute, 70569 Stuttgart, Germany | ¹ Magnesium Elektron, Manchester, United Kingdom |
| 12.40 | | | | HIGHLIGHT BULK METALLIC GLASSES FOR LIGHTWEIGHT APPLICATIONS Dr. Atakan Peker ¹ |
| | | | | 'Washington State University, Spokane, USA |



| Symposium | В3 | B5 | B10 | B11 |
|---------------|---|---|--|--|
| Room | CR I Hall/M2 | Conference Room 1/M1 | Maurice Saltiel Hall II/M2 | Maurice Saltiel Hall III/M2 |
| Session Title | Single Crystals Ni-base Superalloys I | Carbides and CNT's | Fatigue & Fracture I - Local Strain Approach and Applications | Fatigue of Metallic Materials |
| Chairperson | Srdjan Milenkovic | Natalia Sobczak | Georgios Savaidis | Tilmann Beck |
| | KEYNOTE/INVITED CHALLENGES FOR THE DESIGN OF NI-BASED SX SUPERALLOYS COMPONENTS | COLLOIDAL PROCESSING AND LIQUID-PHASE ASSISTED FAST SINTERING OF SIC-CNTS NANO- COMPOSITES WITH ENHANCED SLIDING-WEAR RESISTANCE | KEYNOTE/INVITED THE LOCAL STRAIN APPROACH FORMULATED AS A SUIDELINE FOR PERFORMING ASSESSMENTS OF THE FATIGUE STRENGTH OF COMPONENTS | KEYNOTE/INVITED STUDY OF FATIGUE SLIP MARKINGS AT THE SURFACE OF A MARTENSITIC STEEL |
| 11.00 | | Dr. Victor M Candelario¹, Dr. Angel L Ortiz¹, Dr. Rodrigo Moreno² Departamento de Ingeniería Mecánica, Energética y de los Materiales, Universidad de Extremadura, Badajoz, Spain, ¹Instituto de Cerámica y Vidrio, CSIC, | • <u>Melanie Fiedler'</u> , Michael Vormwald ¹ , Michael Wächter ² , Alfons Esderts ² | Gulzar Seidametova ¹ , Pr Jean-Bernard Vogt ¹ , Dr Ingrid Proriol Serre ¹ |
| | Dr. Eng. Jonathan Cormier | Madrid, Spain INFLUENCE OF HIP POST-TREATMENT ON MICROSTRUCTURE AND DENSITY OF SILICON CARBIDE SINTERED BY SPS | | |
| 11.20 | | Florimond Delobel ^{1,2} , Dr Sébastien Lemonnier ¹ , Dr Elodie Barraud ¹ , Dr Julien Cambedouzou ^{2,3} | ¹ Materials Mechanics Group, Civil and Environmental Engineering, Darmstadt, Germany, ² Institute of Plant Engineering and Fatigue Analysis, Clausthal, Germany | 'Unité Matériaux Et Transformations - UMR Universi Lille 1/CNRS/INRA/ENSCL, Lille University - 59655 Villeneuve d'Ascq, France |
| | Institut Pprime & ISAE-ENSMA, Futuroscope - Chasseneuil. France | ISL, 68301 Saint-Louis Cedex, France, ² ENSCM, 34000 Montpellier, France, ³ ICSM, UMR 5257 CEA/ CNRS/ENSCM/Université de Montpellier, 30207 Bagnols-sur-Cèze Cedex, France | | |
| | 3D DISCRETE DISLOCATION DYNAMICS STUDY OF CREEP BEHAVIOR IN NI-BASE SINGLE CRYSTAL SUPERALLOYS BY A COMBINED DISLOCATION CLIMB AND VACANCY DIFFUSION MODEL | ELASTIC PROPERTIES OF TIZAIC AND TISSIC2 MAX PHASE FOAMS WITH CONTROLLED POROSITY AND PORE SIZE PRODUCED BY POWDER METALLURGY | ANALYSIS OF RELEVANCE OF MONOTONIC PROP- ERTIES FOR ESTIMATION OF STRAIN-LIFE FATIGUE PARAMETERS | A STUDY OF LOW CYCLE FAGIUE LIFE AND ITS CO RELATION WITH MICROSTRUCTURAL PARAMETER IN IN713C NICKEL BASED SUPERALLOYS |
| 11.40 | Dr. Siwen Gao ¹ , Prof. Dr. Marc Fivel ² , Dr. Anxin Ma ¹ , Prof. Dr. Alexander Hartmaier ¹ | Ms Beatriz Velasco ¹ , Dr. Elena Gordo ¹ , Dr. Liangfa Hu ² , Dr. Miladin Radovic ² , <u>Dr. Sophia A. Tsipas</u> ¹ | Tea Marohnić¹, D. Sc. Robert Basan¹ | Mr Jordi Salvat Canto ¹ , Mr Sean Winwood ² , Ms Katie Rhodes ² , Soran Birosca ¹ |
| | Interdisciplinary Centre For Advanced Materials Simulation (ICAMS), Bochum, Germany, 'University Grenoble Alpes/CNRS, SIMaP-GPM2, Grenoble, France | Departamento de Ciencia e Ingeniera de Materiales e Ingeniería Química, IAAB, Universidad Carlos III de Madrid, Leganes 28911, Spain, "Materials Science and Engineering, Texas A&M University, College Station TX77843, United States of America | 'Faculty Of Engineering, University Of Rijeka, Rijeka, Croatia | ¹ Materials Research Centre, College of Engineering Swansea University, Swansea, United Kingdom, ² Curmins Turbo Technologies, Huddersfield, United Kingdom |
| | EARLY DISLOCATION PROCESSES DURING LOW TEM- PERATURE (< 800°C) AND HIGH STRESS (> 600 MPA) CREEP OF NI-BASE SINGLE CRYSTAL SUPERALLOYS | SYNTHESIS OF MESOPOROUS SIC BY HARD-TEMPLATE | RESEARCH ON THE FATIGUE STRENGTH OF EN AW 1370 WIRES USED FOR OVERHEAD POWER LINES | FATIGUE GOVERNED BY MICROSTRUCTURE IN NANOSTRUCTURED BAINITE |
| | Prof. Antonin Dlouhy ² , <u>Prof. Gunther Eggeler</u> ¹ , Dr. Xiaoxiang Wu ¹ , Dr. Philip Wollgramm ¹ , Dr. Christof Somsen ¹ , Dr. Aleksander Kostka ¹ , MSc. David Bürger ¹ | | | Dr. Lucia Morales-rivas ¹ , Inga Mueller ¹ , Rosalia R menteria ² , Dr. Matthias Kuntz ² , Dr. Thomas Sourm Dr. Francisca G. Caballero ² , Dr. Carlos Garcia-Mate Dr. Eberhard Kerscher ¹ |
| 12.00 | | Professor Javier Narciso¹, Doctor Mario Caccia¹, Master Adrian Ortega¹, Doctor Jaime García-Aguilar¹ | M.Sc. Bartosz Jurkiewicz ¹ , Prof. Tadeuusz Knych ¹ , Prof. Beata Smyrak ¹ , M.Sc. Matgorzata Zasadzińska ¹ , M.Sc. Marek Gnietczyk ¹ | |
| | ¹ Ruhr-Universität Bochum, Bochum, Germany, ² Institute of Physics of Materials, ASCR, Brno, Czech Republic | 'Alicante University, Alicante, Spain | 'AGH Universtiy Of Science And Technology, Kraków, Polska | ¹ TU-Kaiserslautern, Germany, ² CENIM-CSIC, Spain, ³ Robert Bosch GmbH, Germany, ⁴ Asco Industries CREAS, France |
| | CREEP DISLOCATION STRUCTURE UNDER SLOW STRAIN RATE TENSILE TESTING IN SINGLE CRYSTAL NICKEL BASE SUPERALLOY AT 750°C | GRAPHITIZATION OF SIC PARTICLES BY LASERS AND THEIR APPLICATION AS ANTI-BALLISTIC MATERIALS | FATIGUE OF CASE HARDENED DIESEL INJECTION PARTS UNDER ELEVATED TEMPERATURES | MECHANISM- AND MICROSTRUCTURE-BASED CHARACTERISATION OF THE CYCLIC DEFORMATIC AND FRACTURE BEHAVIOR OF THE ALUMINUM C/ ALLOY EN AC-ALSI7MG0.3 |
| 12.20 | Dr Olivier Messe ¹ , Mr Ming Wangkoh ¹ , Dr Neil Jones ² , <u>Prof Cathie Rae</u> ¹ | Mrs Aspasia Antonelou¹. Dr Vassileios Drakopoulos¹, | DrIng. Andreas Diemar ¹ , DiplIng. Andreas Klee- mann ¹ , DrIng. Susanne Kleemann ¹ , <u>Prof. DrIing.</u> Joachim W. Bergmann ¹ | Jochen Tenkamp¹, Stephan Knorre², Prof. Dr. Ulric Krupp², Prof. Dr. Wilhelm Michels², Prof. Dr. Frank Walther¹ |
| | ¹University Of Cambridge, Cambridge, United Kingdom, ²Rolls Royce plc., Derby, United Kingdom | Dr Spyros N. Yannopoulos¹ 'Foundation for Research and Technology – Hellas, Institute of Chemical Engineering Sciences, (FORTH/ ICE-HT), P. D. Box 1414, GR-26504, Rio-Patras, Greece, Patras, Greece | [†] MFPA Weimar, Weimar, Germany | 'TU Dortmund University, Department of Materials Engineering (MPT), Dortmund, Germany, 'Universit of Applied Sciences Osnabrueck, Institute of Materi Design and Structural Integrity, Osnabrueck, Germi |
| 12.40 | EVOLUTION BEHAVIOR OF SECONDARY REACTION ZONE DURING CYCLIC THERMAL FATIGUE IN A SINGLE CRYSTAL SUPERALLOY, CMSX-4 | MICROSTRUCTURAL ANALYSIS OF TITANIUM MATRIX COMPOSITES WITH 40 AND 50 VOL.% TITANIUM CARBIDE CONTENT PRODUCED BY A COMBINATION OF SELF PROPAGATING HIGH TEMPERATURE SYNTHESIS AND SPARK PLASMA SINTERING | NUMERICAL DETERMINATION OF THE ENDURANCE LIMIT OF AUTOFRETTAGED COMPONENTS WITH RESPECT TO CYCLIC PLASTICITY AND TEMPERATURE EFFECTS | THERMOMECHANICAL FATIGUE BEHAVIOUR OF AGED HEAT RESISTANT AUSTENITIC ALLOYS MSc Hugo Wärner ¹ , Phd Mattias Calmunger ¹ , Adju professor Guocai Chai ¹² , Professor Sten Johansso |
| | Mr. Joong Eun Jung1, Mr. In Soo Kim¹, Mr. Baig Gyu Choi¹, Mr. Jeonghyeon Do¹, Mr. In-yong Jung¹, Mr. Chang Yong Jo¹ | <u>Dr Andrew Norman</u> ¹ , Dr. Martina Meisnar ¹ , Dr. Miguel Lagos ² , Dr. Iñigo Agote ² , Dr. Laurent Pambaguian ¹ | Darko Panic'. Prof.Dr-Ing. Michael Vormwald | Professor Johan Moverare¹ ¹Department of Management and Engineering, Linköping University, Linköping, Sweden, ²AB Sandı |
| | 'Korea Institute Of Materials Science (KIMS), Changwon-si, South Korea | European Space Agency. Noordwijk. The Netherlands. ² Tecnalia. Paseo Mikeletegi. 2 - Parque Tecnológico E-20009 San Sebastián. Spain | ¹Technische Universität Darmstadt, Materials Mechanics Group, Darmstadt, Germany | Materials Technology R&D Center, Sandviken, Swea |



| Symposium | AT ZUT/ | C2 | C6 | D2 |
|---------------|--|---|---|---|
| Room | Friends of Music Hall/M1 | Conference Room 4/M1 | I-15/M1 | Museum Hall /M2 |
| Session Title | Coatings and thin films 1/6 - Friction | Laser Induced Forward Transfer | Welding 1 | Metals & Ceramics I: Interfacial structures and Phenomena |
| Chairperson | Albano Cavaleiro, Ru Peng | Robert Eason | Christof Sommitsch | Frank Mücklich |
| 11.00 | KEYNOTE/INVITED CAN WE DESIGN FRICTIONLESS MATERIAL? | KEYNOTE/INVITED USING LIFT FOR PRINTING HYBRID ELECTRONICS | KEYNOTE/INVITED MICROSTRUCTURE STABILITY DURING CREEP OF FRICTION STIR WELDED AA2024-T3 ALLOY | KEYNOTE/INVITED SOLUTE FIELDS AND GRAIN BOUNDARY MOTION |
| | Mr Tomas Polcar ¹ | Dr. Alberto Pique¹ | Prof. Michael Regey ¹ , Prof. Stefano Spigarelli ² | Professor Wayne Kaplan¹, Ruth Moshe¹, Hadas Sternlicht¹, Ran Akiva¹, Dr. Rachel Marder¹ |
| 11.20 | ¹ University of Southampton, Southampton, UK | ¹ U.S. Naval Research Laboratory, Washington, United States | ¹Ort Braude College, Karmiel, Israel, ²Dipartimento di Meccanica, Università Politecnica delle Marche, Ancona, Italy | ¹Technion - Israel Institute of Technology, Haifa, Israel |
| | ADHESION AND TRIBOLOGICAL PERFORMANCE OF HARD CAPVD COATINGS | HIGHLIGHT MICRO/NANO DIGITAL PRINTING OF METAL STRUCTURES | MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED DISSIMILAR STRUCTURAL STEEL | A TRANSMISSION ELECTRON MICROSCOPY STUDY OF PRECIPITATE PHASES THAT FORM AT 95°C AND 250°C IN A HEAT EXCHANGER ALLOY |
| 11.40 | Gülşah Aktaş Çelik', Fountas Konstantinos², Şaban Hakan Atapek', Helen Kamoutsi², Şeyda Polat', Anna D. Zervaki² | <u>Dr Philippe Delaporte</u> ¹, Mr Qingfeng Li¹, Dr Daniel Puerto¹, Dr David Grojo¹, Dr Anne-Patricia Alloncle¹ | Prof. Dr. Tevfik Kucukomeroglu¹, Lecturer Semin Mahmut AKTARER, Research Assistant Dursun Murat ŞEKBAN, Assistant Professor Doctor Güven İPEKOĞLU, Professor Gürel ÇAM | Dr. Calin Daniel Marioara ¹ , Dr. Emmanuel Hersent ² , Dr. Anders Oskarsson ³ |
| | ¹ Kocaeli University, Kocaeli, Turkey, ² University of Thessaly, Volos, Greece | ¹LP3 Laboratory - CNRS - Aix - Marseille University, Marseille, France | 'Karadeniz Technicel University, Trabzon, Turkey | ¹ Sintef Materials And Chemistry, Trondheim, Norway, ² Gränges Sweden AB Applied R&D, Finspång, Sweden, ² Gränges AB Strategic R&D, Finspång, Sweden |
| | DEVELOPING NANO-LAYERED COATINGS FOR APPLICATION ON HIGH SPEED CUTTING TOOLS | LASER INDUCED FORWARD TRANSFER OF Cu INK: PRINTING AND JETTING STUDIES | A CONTRIBUTION FOR UNDERSTANDING THE BOND FORMATION MECHANISM OF FRICTION WELDED JOINTS | SITE-SPECIFIC CHARACTERIZATION OF GRAIN BOUNDARY SEGREGATION DURING THE EVOLUTION OF PRIMARY RECRYSTALLIZATION IN A TERNARY Fe-Si-Sn ALLOY |
| 12.00 | Wang Qimin¹ | MSc Marina Makrygianni ¹ , BSc Agamemnonas Kalaitzis ¹ , Dr Antonios Hatziapostolou ² , Dr Ioanna Zergioti ¹ | Eric Heppner ¹ , Christoph Rößler ¹ , Markus Körner ¹ , | Nikolas Mavrikakis¹², Dr. Myriam Dumont¹, Dr. Dominique Mangelinck¹, Marion Descoins¹, Dr. Wahib Saikaly³ |
| 12.00 | School Of Electromechanical Engineering. Guangdong University Of Technology, Guangzhou, P.r. China, China | ¹ National Technical University of Athens, Zografou, Athens, Greece- ² Technological Educational Institute of Athens, Department of Energy Technology Engineering, Aigaleo, Athens, Greece | Professor Elmar Woschke ¹ , Doctor of Engineering David Schmicker ² 'Otto-von-guericke University Magdeburg, Magdeburg, Germany, 'Sampro GmbH, Magdeburg, Germany | 'Aix-Marseille Université, CNRS, IM2NP UMR 7334, Marseille, France, *ArcelorMittal Research SA, Maizières-Ise-Metz, France, *ArcelorMittal Global R&D Gent, Belgium |
| | EFFECT OF PERIOD ON PROPERTIES OF TIO.54AIO.46/ TIO.54AIO.46N MULTILAYER COATINGS DEPOSITED BY REACTIVE GAZ PULSING PROCESS | HIGHLIGHT DIRECT EVIDENCE OF THE BUBBLES INVOLVED IN THE LASER INDUCED FORWARD TRANSFER DYNAMICS | MICROSTRUCTURE IDENTIFICATION AND LOCAL MECHANICAL PROPERTIES OF A LINEAR FRICTION WELD OF TI-5AL-2Sn-2Zr-4Mo-4Cr (T117) WITH A WIDMANSTÄTTEN MICROSTRUCTURE | CHARACTERIZATION OF FINE INTERFACIAL STRUCTURES IN THE DIAMOND COATING ON THE ALLOY SUBSTRATES |
| 12.20 | Dr Marie-José Pac¹, Dr Sylvain Giljean¹, PhD Yoann Pinot¹, Dr Christophe Rousselot², Dr Patrick Delobelle³, Pr Marie-Hélène Tuilier¹ | Dr. Michael Zenou', Dr Tal Verdene ¹ | Dorick Ballat-durand¹, Salima Bouvier¹, Jerome Delfosse², Marion Risbet¹ | Professor Lianlong He ¹ , Dr Xiaoju Li ¹ , Dr Yuanshi Li ² |
| | Université de Haute Alsace, Laboratoire de Physique et Mécanique Textiles, Mulhouse, France, Université de Franche-Comté, FEMTO-ST/MN2S, Montbéliard, France, Université de Franche-Comté, FEMTO-ST/DMA, Besançan, France | ¹10-tech ,Jerusalem, Israel | [†] Université De Technologie De Compiègne Laboratoire Roberval, Compiègne, France [‡] Hard Alloys & Processes, Suresnes, France | Institute Of Metal Research, CAS, Shenyang, China, Plasma Physics Laboratory, University of Saskatchewan, Saskatoon, Canada |
| | HIGHLIGHT NON-REACTIVELY SPUTTERED ULTRA-HIGH TEMPERATURE TA-C COATINGS | PRINTING WITH LIGHT | JOINING OF MARINE STEELS BY SEVERE PLASTIC DEFORMATION-INDUCED FRICTION STIR WELDING | NANOSTRUCTURE AND COMPOSITIONAL PROFILING IN EPITAXIAL Fe/MgO/Pt ULTRA-THIN FILMS |
| 12.40 | Dr. Helmut Riedl', Dl Heloise Lasfargues', Thomas Glechner', Dr. Valentina Paneta', Prof. Daniel Primetzhofer', Dr. Szilard Kolozsvári ² , Dr. David Holec', Prof. Paul Mayrhofer' 1 TU Wien, Institute of Materials Science and Technology. | Dr. Gari Arutinov!, Merijn Giesbers!, Guy Bex!, Rob Hendriks², Dr. Ir. Jeroen van den Brand¹ | PhD Student Murat Sekban¹, Prof.Dr. Gencaga Purcek²³, PhD Student Semih Aktarer⁴, Prof.Dr. Tevfik Kucukomeroglu² | Dimitrios Karfaridis¹, Dr. Konstantinos Simeonidis¹, Nikolaos Pliatsikas¹, Laura Mihalceanu², Sascha Keller², Dr. George P. Dimitrakopulos¹, Dr. Thomas Kehagias¹, Dr. Evangelos Th. Papaioannou², Dr. George Vourlias¹ |
| | Wien, Austria, *Uppsala University, Department of Physics and Astronomy, Uppsala, Sweden, *Plansee Composite Materials GmbH, Lechbruck am See, Ger- many, *Montanuniversität Leoben, Department Physical Metallurgy and Materials Testing, Leoben, Austria | ¹ Holst Centre, Eindhoven, Netherlands, ² NovaCentrix, Austin, United States | "Department of Naval Architecture and Marine Engineering, Karadeniz Technical University, Trabzan-Turkey, Trabzan. Turkey, "Department of Mechanical Engineering, Karadeniz Technical University, Trabzan-Turkey, Trabzan, Turkey, "Engineering Faculty, Giresun University, Giresun, Turrkey, "Department of Automotive Technology, RecepTayyip ErdoganUniversity, Rize-Turkey, Rize, Turkey | 'Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, 'Departmen of Physics and National Research Center OPTIMAS, Technical University of Kaiserslautern, 67663 Kaiserslautern, Germany |



| Symposium | D4 | D9 | E1 | E2 |
|---------------|--|---|--|--|
| Room | Library Hall/M2 | Maurice Saltiel Hall I/M2 | CR II Hall/M2 | CR III Hall/M2 |
| Session Title | Mechanical testing at micro/nano scales - Deformation Mechanisms I | Introduction and Advanced Nuclear Steels | Polymer Electrolyte Membranes | Na and Metal Batteries |
| Chairperson | Christophe Pinna & Eric Le Bourhis | J. Kalivodová | Maria Luisa Di Vona & Ioannis Kallistis | I. Nicotera |
| | KEYNOTE/INVITED COMPETING MECHANISMS BETWEEN DISLOCATION AND PHASE TRANSFORMATION IN PLASTIC DEFORMATION OF YTTRIA-STABILIZED TETRAGONAL ZIRCONIA NANOPILLARS | THE JOINT PROGRAMME ON NUCLEAR MATERIALS OF THE EUROPEAN ENERGY RESEARCH ALLIANCE - COORDINATING RESEARCH ON GENIY NUCLEAR REACTOR MATERIALS FOR A LOW-CARBON ENERGY EUROPE | KEYNOTE/INVITED HYDROCARBON, SOLID POLYMER ELECTROLYTES FOR ACIDIC AND ALKALINE ELECTROCHEMICAL DEVICES | KEYNOTE/INVITED Na-ION BATTERIES |
| 11.00 | | Dr. Lorenzo Malerba ¹ , Dr. Massimo Angiolini ² , Dr. Marjorie Bertolus ² , Dr. Angelika Bohnstedt ⁴ , Dr. Jana Kalivodová ⁵ , Dr. Karl-Fredrik Nilsson ⁴ , Dr. Cris- telle Pareige ² , Dr. Marta Serrano ⁸ , Dr. Joseph Somers ⁹ | Prof. Steven Holdcroft | Prof. Stefano Passerini |
| | <u>Dr. Mohsen Asle Zaeem</u> ¹, Dr. Ning Zhang | SCK-CEN. Mol. Belgium. ² ENEA. Casaccia. Italy. ³ CEA- DEN. Cadaroche. France. 4KIT. Karlsruhe. Germany. ² CVR. Rez. Czech Rep. ³ IRC. Petten. The Netherlands, ³ GFM/CNRS. Rouen. France. ⁸ CIEMAT, Madrid. Spain. ³ JRC. Karlsruhe. Germany | | |
| | | UNDERSTANDING OF RADIATION EFFECTS AND DAMAGE IN NUCLEAR REACTORS MATERIALS USING JANNUS ION BEAMS | | |
| 11.20 | ¹ Missouri University of Science and Technology, Rolla, United States | <u>Dr Celine Cabet</u> ¹ , Dr Aurélie Gentils ² | ¹Simon Fraser University, Burnaby, Canada | KIT-HIU, Ulm, Germany |
| | | ¹ CEA, Gif-sur-yvette, France, ² CSNSM, Orsay, France | | |
| | IN-SITU TEM CHARACTERIZATION OF DEFORMATION INDUCED MARTENSITIC TRANSFORMATION IN STAINLESS STEEL 304 | KEYNOTE/INVITED IMPROVEMENT OF HIGH TEMPERATURE STRENGTH OF CONVENTIONAL GRADE 91 STEEL BY THERMO- | SELF CROSS-LINKED QUATERNARY PHOSPHONIUM BASED ANION EXCHANGE MEMBRANES | ION DIFFUSION IN TUNNEL-STRUCTURED Nao.44Mn0² CATHODE MATERIAL FOR NAION BATTERIES |
| | | MECHANICAL TREATMENTS | Pileas Papakonstantinou¹, Giota Aleksopoulou¹, Assist. Professor Valadoula Deimede¹ | <u>Chiara Ferrara</u> , Piercarlo Mustarelli, E. Quartarone, Cristina Tealdi |
| 11.40 | <u>Djamel kaoumi</u> ¹ , Junliang Liu ² | | | |
| | | | ¹ University of Patras, Patras, Greece | Department of Chemistry and INSTM, University of Pavia, Italy Viale Taramelli 16, 27100 Pavia, Italy |
| | ¹ North Carolina State University, Raleigh, United States, ² University of South Carolina, Columbia, United States | Dr. Marta Serrano García ¹ , Dr Mercedes Hernan- dez-Mayoral ¹ , Mr Javier Vivas ² , Dr Carlos Capdevila ² , Dr Jan Duzgan ³ | | Vide Idianiell 18, 27100 Pavia, Raly |
| | MICRO-PLASTICITY CHARACTERIZATION OF MARTENSITE, FERRITE, AND DUAL - PHASE STEEL | ¹ Ciemat, Madrid, Spain, ² Centro Nacional de Investi- | COMPOSITE ANIONIC MEMBRANES BASED ON POLYSULFONE AND LAYERED DOUBLE HYDROXIDES | EXPLORING THE NI REDOX ACTIVITY IN POLYANIO COMPOUNDS AS CONCEIVABLE HIGH POTENTIAL |
| | dr.ir. Johan Hoefnagels¹, dr. Chaowei Du¹, | gaciones Metalúrgicas (CENIM-CSIC), Avda Gregorio del Amo, 8: Madrid, E-28040, Spain, ³ COMTES FHT a.s., Průmyslová 995, 334 41 Dobřany, Czech Republic | | CATHODES FOR Na RECHARGEABLE BATTERIES |
| | prof.dr.ir. Marc Geers ¹ | ¹ Ciemat, Madrid, Spain, ² Centro Nacional de Investi- gaciones Metalúrgicas (CENIM-CSIC), Avda Gregorio del Amo, 8; Madrid, E-28040, Spain, ³ COMTES FHT a.s., | | Mr. Huang Zhang ¹² , Dr. Ivana Hasa ¹² , Dr. Daniel Buchholz ¹² , Mr. Bingsheng Qin ¹² , Dr. Dorin Geiger ³ , |
| 12.00 | | Průmyslová 995, 334 41 Dobřany, Czech Republic | <u>Dr. PhD Riccardo Narducci</u> ¹²³ . Prof. Philippe Knauth ²³ . Prof. Maria Luisa Di Vona ¹³ | Dr. Sangsik Jeong ¹² , Prof. Ute Kaiser ³ , Prof. Stefand Passerini ¹² |
| | ¹ Eindhoven University of Technology, | | ¹Università Deali Studi Di Roma Tor Vergata (URoma2). | |
| | Eindhoven, the Netherlands | | Oniversia Degli Staud Li Konin Li vergiud (onimaz). Department of Industrial Engineering, Rome, Via del Politecnico I, 00133, Italy, 'Aix Marseille Université (AMU), CNRS, Madirel (UMR 7246), Electrochemistry of Materials Group, Marseille, Campus St. Jérôme, 13397. France, 'International Associated Laboratory (L.I.A.), lonomer Materials for Energy (AMU, CNRS, URoma2), Marseille, Rome, France, Italy | Helmholtz Institute Ulm, Ulm, Germany, ² Karlsruh Institute of Technology, Karlsruhe, Germany, ³ Centra Facility of Electron Microscopy, Electron Microscopy Group of Materials Science, University of Ulm, Ulm, Germany |
| | THE EFFECT OF Y ADDITION ON THE DEFORMATION OF Mg BY MICRO-PILLAR COMPRESSION | KEYNOTE/INVITED DEFORMATION MECHANISMS IN ODS ALLOYS: RECENT HIGHLIGHTS OBTAINED WITHIN THE MATISSE PROGRAM | CROSS-LINKED POLYMER ELECTROLYTE MEMBRANES FOR HT-PEMFCs | ADVANCED BIFUNCTIONAL CATALYST BASED ON NOVEL ELECTROSPUN CARBON NANOFIBERS DECORATED WITH THE CoO-CO REDOX SYSTEM FOR ALKALINE METAL-AIR BATTERIES |
| 12.20 | <u>Dr Jing Wu</u> ¹ , Ms Shanshan Si ¹ , Dr YuLung Chiu ¹ | Doctor Joël Malaplate ¹ , Doctor Mickaël Dadé ^{1,2} , Doctor Yann Decarlan ¹ , Doctor Frédéric Mompiou ² , Doctor Daniel Caillard ² , Doctor Ankur Chauban ⁴ , Doctor | Ms Aikaterini Andreopoulou¹², Ms Rafaela Nannou¹, Mr Konstantinos Kallitsis¹, Mr Joannis Kallitsis¹² | Dr. Vincenzo Baglio¹, Dr. Cinthia Alegre¹, Dr. Conce Busacca¹, Dr. Orazio Di Blasi¹, Ms. Esterina Modica¹ Dr. Vincenzo Antonucci¹, Dr. Antonino Aricò¹, Dr. Alessandra Di Blasi¹ |
| | ¹ University of Birmingham, United Kingdom | Jarir Aktaa ⁴ , Doctor Mercedes Hernandez-Mayoral ⁵ , Doctor Elvira Oñorbe Esparraguera ⁵ , Doctor Marta Serrano Garcia ⁵ | ¹ University Of Patras, Department Of Chemistry, University Campus, Greece, ² FORTH/ICEHT, Platani Patras, Greece | ¹Cnr-Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano", Messina, Italy |
| | A VARIANCE OF PLASTIC DEFORMATION MECHA- NISMS IN DIFFERENT GRAIN TYPES OF ULTRAF- INE-GRAINED ALUMINIUM | 'DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, F-91191 Gif- Sur-Yvette, France, "MNES ParisTech, PSL Research | PROGRESS ON ELECTRODE INTERFACE STRUCTURE MODIFICATION FOR PROTON EXCHANGE MEMBRANE FUEL CELLS | LITHIUM BATTERIES FOR AUTOMOTIVE AND STATIONARY APPLICATIONS: RESULTS FROM TESTS CAMPAIGN |
| 12.40 | Witold Chrominski ¹ , Prof. Malgorzata Lewandowska ¹ | University, Centre des Matériaux, CNRS UMR 7633, BP 87, 91003, Evry Cedex, France, ³ Centre d'Elaboration des Matériaux et d'Eludes Structurales, BP 94347, 31055 Toulause Cedex 4, France, ⁴ Institute for Applied Materials, Karlsruhe Institute of Technology (KIT), | Mr. Morten Gildsig Poulsen ¹ , Dr. Mikkel Juul Larsen ² , <u>Dr. Shuang Ma Andersen</u> ¹ | Dr Francesco Sergi ¹ . Dr Giovanni Brunaccini ¹ , Dr Davide Aloisio ¹ , Nico Randazzo ¹ , Dr Marco Ferra Dr Laura Andaloro ¹ , Dr Vincenzo Antonucci ¹ |
| | ¹ Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland | Herman-van-Helmholtz-Platz 1, 76344 Eggenstein Hermann-van-Helmholtz-Platz 1, 76344 Eggenstein Leopoldshafen, Germany, "División de Materiales de Interés Energético, Centro Investigaciones Medioam- bientales y Tecnológicas (CIEMAT), Avda. Complutense 40, 28040 Madrid, Spain | 'University Of Southern Denmark, Odense, Denmark, ²EWII Fuel Cells A/S, Odense, Denmark | 'Cnr-itae, Messina, Italy |

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| Symposium | E8 | F1 | F4 |
|---------------|--|---|--|
| Room | Rehearsal Room 5.17/M1 | 3-20/M1 | 3-21/M1 |
| Session Title | Photovoltaics-New Materials I | Hydrogels for Tissue Engineering | Surface Modification Methods for Biomaterials |
| Chairperson | João Manuel de Almeida Serra | Antonio Salinas | Pieter Cools |
| 11.00 | HIGH PRESSURE INDUCED PHASE TRANSFORMATIONS OF Cs ₂ SnX ₄ PEROVSKITES STUDIED VIA RAMAN SPECTROSCOPY Dr. Andreas Kaltzoglou¹, M. Sc. Maria Karnachoriti², Dr. Giannis Bounos¹, Dr. Athanassios Kontos¹, Prof. Yannis Raptis², Dr. Polycarpos Falaras¹ | KEYNOTE/INVITED INTRACELLULAR DELIVERY OF POLYETHYLENIMINE COATED-RNASE A LOADED NANOGELS FOR CANCER THERAPY | HIGHLIGHT DESIGN AND SURFACE ANALYSIS OF ANTIMICROBIAL COATINGS |
| | ¹ National Center for Scientific Research "DEMOKRITOS", Athens, Greece, ² Faculty of Applied Sciences, National Technical University of Athens, Athens, Greece | Neda Kordalivand ¹ , Dandan Li ¹ , Nataliia Beztsinna ¹ , Enrico Mastrobattista ¹ , Rene van Nostrum ¹ , Tina Vermonden ¹ , <u>Wim E. Hennink¹</u> | Prof Hans Griesser ¹ |
| 11.20 | CORRELATIVE TRANSMISSION EBSD-APT ANALYSIS OF GRAIN BOUNDARIES IN Culfn.Ga)Se ² AND Cu ² Ta-SnSe ⁴ BASED THIN-FILMS Dr. Torsten Schwarz ¹ , M. Sc. Guillaume Stechmann ¹ , Dr. Baptiste Gault ¹ , Dr. Oana Cojocaru-Mirédin ¹ 2, Dr. Pyuck-Pa Choi ² , Dr. Alex Redinger ⁴ , Prof. Susanne Siebentrit ⁴ , Prof. Dierk Raabe ¹ "Max-planck-institut Für Eisenforschung GmbH, Düsseldorf, Germany, ² RWTH Aachen, Aachen, Germany, ³ Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea, 'University of Luxembourg | ¹ Department of Pharmaceutics, Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht, Netherlands | ¹ University Of South Australia, Adelaide, Australia |
| | GROWING AND CHARACTERIZING SELF-ORGANIZING ALUMINIUM NANOWIRES IN AMORPHOUS SILICON | DEVELOPMENT OF NOVEL TISSUE-ENGINEERING ALGINATE SCAFFOLDS TO AMELIORATE POST-MYOCARDIAL INFARCTION ELECTROPHYSIOLOGIC REMODELING | SURFACE PROPERTIES IMPROVEMENT OF PEEK BY MULTI-CHARGED ION IMPLANTATION: DETAILS ON MICROSTRUCTURE AND TRIBOLOGY |
| 11.40 | PhD Annett Thogersen', PhD Ingvild J. Thue Jensen', PhD Marit Stange', PhD Ole Martin Lovvik', PhD Alexander G. Ulyashin', PhD Spyros Diplas' | Dr. Eleonora Barka ¹² , Dr. Marianthi Kontonika ²³ , Dr. Eleni Bagli ⁴ , Dr. Dimitrios Kouroupis ⁴ , BSc Maria Markou ⁴ , Dr. Agapi Vilaeti ²³ , BSc Maria Roumpi ¹² , Dr. Demetrios Papayannis ¹ , Dr. Theodoros Fotsis ⁴ , Dr. Theofillos Kolettis ²³ , Dr. Simeon Agathopoulos ⁴ | Dr Massoud Dadras ¹ , <u>Dr Olha Sereda</u> ¹, Dr Kaushik Vaideeswaran¹, Dr Christophe Yamahata² |
| | ¹ SINTEF Materials and Chemistry, Oslo, Norway | 'Ceramics & Composites Laboratory, Dept. of Materials Science and Engineering, University of Ioannina, Ioannina, Greece, 'Cardiovascular research institute, Ioannina & Athens, Greece, 'Cardiology Dept., School of Medicine, University of Ioannina, Ioannina, Greece, 'Foundation for Research & Technology-Hellas, Institute of Molecular Biology and Biotechnology, Ioannina, Greece | ¹ Csem, Material Science, Neuchatel, Switzerland, ² IDONUS, Hauterive, Switzerland |
| | | SYNTHETIC EXTRACELLULAR MATRICES BASED ON MICROPOROUS ORGANOGELS | SURFACE TREATMENT OF POLYMERS BY ATMOSPHERIC PLASMA AND GRAFT POLYMERIZATION OF ACRYLIC ACID TO IMPROVE HYDROXYAPATITE DEPOSITION |
| 12.00 | | Sophie Franceschi ¹ . Emile Perez ¹ | Ms I-Yun Cheng ¹ , Professor Ko-shao Chen ¹ , Mr Wei-Yu Chen ² , Professor Allan Matthews ³ |
| | | ¹ Laboratoire des IMRCP, France | ¹ Department of Materials Engineering, Tatung University, Taipei, Taiwan, ² Department of Materials Science and Engineering, University of Sheffield, Sheffield, UK, ³ School of Materials, University of Manchester, Manchester, UK |
| | | LATERAL ARRANGEMENT OF PHOSPHOLIPID MONOLAYERS AS INFLUENCED BY THE ADSORPTION OF HYALURONAN AND THE EFFECT OF HYDROSTATIC PRESSURE | IMPROVING THE SURFACE PROPERTIES OF AN UHMWPE SHOULDER IMPLANT WITH AN ATMOSPHERIC PRESSURE PLASMA JET |
| 12.20 | | Dr D.C. Florian Wieland ¹ , Dr Thomas Zander ¹ , Dr Vasyl Garamus ¹ , Dr Andra Dedinaite ² , Prof Per Claesson ² , Prof Regine Willumeit-Römer ¹ | Stijn Van Vrekhem ¹ , Karen Vloebergh ¹ , Chris Vercruysse ² , Heidi Declercq ² , Alexander Van Tongel ³ , Nathalie De Geyter ¹ , Rino Morent ¹ |
| | | ¹ Helmholtz Zentrum Geesthacht, Hamburg, Germany, ² KTH Royal Institute of Technology, Stockholm, Sweden | Research Unit Plasma Technology, Department of Applied Physics. Faculty of Engineering and Architecture. Ghent University, Ghent. Belgium. 'Tissue Engineering Group, Department of Basic Medical Sciences. Faculty of Medicine and Health Sciences. Ghent University, Ghent. Belgium. 'Department of Orthopedic Surgery and Traumatology, Ghent University Hospital, Ghent. Belgium |
| | | CELLULOSE NANOFIBRILS AS SCAFFOLDS OR TISSUE ENGINEERING | COMPARISON OF PLASMA-SPRAYED BIOACTIVE COATINGS DEPOSITED FROM DIFFERENT FEEDSTOCKS |
| 12.40 | | Prof. Kristin Syverud ^{1,2} , Dentist Ahmad Rashad ³ , PhD Ellinor Heggset ¹ , Prof. Kamal Mustafa ³ | Mr. Eugeni Cañas ¹ , Dr. Mónica Vicent ¹ , Dr. María José Orts ¹ , Dr. Aldo R. Boccaccini ² , Dr. Enrique Sánchez ¹ |
| | | ¹PFI ,Trondheim. Norway. ²NTNU. Trondheim. Norway. ²University of Bergen. Bergen. Norway | 'Instituto de Tecnología Cerámica (ITC), Asociación de Investigación de las Industrias Cerámicas (AICE), Universitat Jaume I (UJI), Av. Sos Baynat s/n, 12006, Castellán, Spain, 'Institute de Biomaterials, Department of Materials Science and Engineering, University of Erlangen-Nuremberg (FAU), Cauerstrasse 6, 91058, Erlangen, Germany |
| | | INJECTABLE HYALURONIC ACID BASED HYDROGELS FOR CARTILAGE REPAIR | IN-VITRO STUDY OF THE BIOACTIVITY AND BIOLOGICAL RESPONSE OF POWDER METALLURGY MODIFIED TI SURFACES Dip-Ing. Julia Ureña¹, <u>Dr. Sophia Tsipas¹</u> , Prof-Dr. Antonia Jiménez-Morales¹, |
| 13.00 | | Ms Evgenia Tsanaktsidou ¹² , Dr Olga Kammona ² , Professor Emeritus Costas Kiparissides ¹² | Prof-Dr. Elena Gordo ¹ , DrIng. Rainer Detsch ² , Prof. DrIng. habil. Aldo R. Boccaccini ² 'University Carlos III of Madrid, Department of Materials Science and |
| | | Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, Chemical Process & Energy Resources Institute, Centre for Research and Technology-Hellas, Thessaloniki, Greece | Engineering, IAAB. Avda. Universidad 30, 28911, Leganés, Spain, 'Institute of Biomaterials, Department of Materials Science and Engineering, University of Erlangen-Nuremberg, 91058, Erlangen, Germany |
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| Symposium | H1 | H2 | нз |
|---------------|--|---|---|
| Room | I -16/M1 | Conference Room 2/M1 | Conference Room 3 |
| Session Title | Accelerating Materials Discovery | Bauxite Residue Valorization | Introuduction and theoretical approaches |
| Chairperson | Patrice Turchi | Joohno Lee. Zhang Yanling | Alessandra Hool, Guido Sonnemann |
| | KEYNOTE/INVITED EMERGING TECHNOLOGIES AND CRITICAL MATERIALS | CURRENT TRENDS ON SCANDIUM HYDROMETALLURGICAL EXTRACTION FROM BAUXITE RESIDUE | CRITICALITY OF STRATEGIC RESOURCES |
| 11.00 | | Mr Panagiotis Davris¹, Dr Efthymios Balomenos², Professor Dimitrios Panias¹, Professor Ioannis Paspaliaris¹ | Armin Reller ^{1,2} |
| | Dr. Alexander King ¹ | ¹National Technical University Of Athens, Athens, Greece, ²Aluminium of Greece, Ag. Nikolaos Plant, Viotia, Greece | ¹ Chair of Resource Strategy, University of Augsburg, Universitätstrasse1a, D-86159, Augsburg, Germany, ² IWKS, Fraunhofer Project Group Materiats Recycling and Resource Strat., D-63755, Alzenau, Germany |
| | | AN INTEGRATED PROCESS TO RECOVER IRON, TITANIUM SCANDIUM AND RARE EARTHS FROM BAUXITE RESIDUE | INTEGRATING CRITICALITY ASPECTS INTO LIFE CYCLE SUSTAINABILITY ASSESSMENT - FIRST METHODOLOGICAL DEVELOPMENTS AND CASE STUD |
| 11.20 | ¹ Critical Materials Institute, Ames, United States | Chiara Cardenia¹, Chiara Bonomi¹, Dr. Efthymios Balomenos¹, Dr. Ioanna Giannopoulou¹, Prof. Dimitrios Panias¹ | Prof. Guido Sonnemann¹, Mr Alexander Cimprich², Mr Christoph Helbig³ Dr Eskinder Gemechu¹, Dr Andrea Thorenz², Prof. Axel Tuma³. Prof. Steven B Young² |
| | | ¹ National Technical University of Athens (NTUA), Athens, Greece | ¹ University of Bordeaux, Bordeaux, France, ² University of Waterloo, Waterloo Canada, ³ University of Augsburg, Augsburg, Germany |
| | KEYNOTE/INVITED ACCELERATING MATERIALS DISCOVERY | SYNTHESIS OF SCANDIUM CONCENTRATE FROM BAUXITE RESIDUE | EXPLORING THE COMPLEMENTARITY AND INDEPENDENCE OF LIFE-CYCL SUSTAINABILITY ANALYSES AND CRITICALITY ASSESSMENTS |
| 11.40 | AND DEVELOPMENT THROUGH MULTI-DISCIPLINARY RESEARCH | Mr. Bengi Yagmurlu ¹² , Mr. Carsten Dittrich ¹ , Prof. Dr. Ing. Bernd Friedrich ² | Torsten Hummen, Luis Tercero |
| | Dr. James Roberto¹ | ¹ MEAB Chemie Technik Gmbh, Aachen, Germany, ² RWTH Aachen, Aachen, Germany | Fraunhofer Institute for Systems and Innovation Research ISI, Germany |
| | | ALTERNATIVE BINDER FORMATION AND IRON EXTRACTION FROM CHEMICALLY AND THERMALLY MODIFIED BAUXITE RESIDUE | SIMULATION BASED LIFE CYCLE ASSESSMENT OF CIRCULAR ECONOMY SYSTEMS |
| 12.00 | | Tobias Hertel ¹ , Prof. Dr. Bart Blanpain ¹ , Prof. Dr. Yiannis Pontikes ¹ | Antti Reuter ¹ , Markus A. Reuter ² |
| | ¹ Oak Ridge National Laboratory, Oak Ridge, United States | ¹MEAB Chemie Technik Gmbh, Aachen, Germany, ²RWTH Aachen, Aachen, Germany | " ¹ Outotec Oyj, Espoo, Finland, ² Helmholtz-Institute Freiberg for Resource Technology, Freiberg, Germany |
| | HIGHLIGHT ACCELERATED DEVELOPMENT OF SUBSTITUTES FOR CRITICAL MATERIALS IN CLEAN ENERGY TECHNOLOGIES | PROPERTIES OF BAYER RED MUD BASED FLUX AND ITS APPLICATION IN SEMI-STEEL DEPHOSPHORIZATION | COMBINING "CIRCULARITY SCORING" CRITERIA AND LIFE CYCLE ASSESSMENT TO COMPARE RECOVERY ROUTES FOR ALKALINE BATTERY RECYCLING |
| 12.20 | Dr. Thomas Lograsso¹ | Professor Yanling Zhang¹. Mr. Fengshan Li¹. | Edis Glogic ¹² , Dr Steven Young ¹ , Dr Guido Sonnemann ² |
| | ¹ Ames Laboratory, Ames, United States | Professor Zhancheng Guo¹ 'State Key Laboratory of Advanced Metallurgy, University of Science And Technology Beijing, Beijing, China | ¹University Of Waterloo, Waterloo, Canada, ²University of Bordeaux, Bordeaux, France |
| | | METRONIDAZOLE AND IBUPROFEN ADSORPTION ON | SECURING RAW MATERIALS FOR SOCIETY: |
| | RECENT DEVELOPMENTS IN RFe12-TYPE COMPOUNDS WITH LOW RARE EARTH CONTENTS FOR PERMANENT MAGNETS | HTC-DERIVED ACTIVATED CARBON: EXPERIMENTAL AND THEORETICAL ADSORPTION STUDIES | A CROSS-SECTORAL AND MULTIDISCIPLINARY CHALLENGE |
| 12.40 | Daniel Salazar ¹ , Andrés Martin-Cid ¹ , Ana Mara Schönhöbel ¹ , Jose Javier Garitaonandia ² , Jose Manuel Barandiaran ² , George Hadjipanayis ³ | Asma Jeder ¹² Philippe Gadonneix ² . Abdelmottaleb Ouedern ¹ . Alain Celzard ² , Vanessa Fierro | Wouter De Soete [†] . Jo Dewulf [†] |
| | ¹ BCMaterials, Derio, Spain, ² University of the Basque Country, Leioa, Spain, ³ University of Delaware, Newark, USA | 'National School of Engineers of Gabes, gabes, Tunisie, 'Institut Jean Lamour, epinal, France | Research Group Environmental Chemistry and Technology (ENVOC), Faculty of Bioscience Engineering, Ghent University, Campus Coupure, Coupure Links 653, B-9000, Ghent, Belgium |
| | | | EIT RAWMATERIALS — DRIVING INNOVATION IN THE RAW MATERIALS VALUE CHAIN |
| 13.00 | | | Roland GAUB ¹ |
| 13.00 | | | ¹ EIT RawMaterials GmbH |



| Symposium | A3 | A5 | A8 | B2 |
|---------------|---|--|---|---|
| Room | I-11/M1 | MOYSA Hall/M2 | I-08/M1 | Aimilios Riadis Hall/M2 |
| Session Title | Nanostructured polymers II | Bio-nano Interface I | Functional oxides 2 | Aluminium |
| Chairperson | Nektaria-Marianthi Barkoula | Mathias Brust | Jorge Iniguez | Suveen Mathaudhu |
| | KEYNOTE/INVITED. ROSE-PETAL AND LOTUS EFFECTS OF BIOMIMETIC NANOSTRUCTURED POLYMER SURFACES | | HIGHLIGHT GRADIENT-MEDIATED COUPLINGS AT IMPROPER FERROELASTIC WALLS | HIGHLIGHT A MULTI-SCALE MODELLING OF PRECIPITATION HARDENING EFFECT IN ALAND Mg ALLOYS |
| 15.00 | Prof. Dr. Jean-francois Gerard | | Massimiliano Stengel ^{1,2} , Andrea Schiaffino ¹ | H. Liu¹, J.F. Nie² |
| | | | 'ICMAB-CSIC, Bellaterra, Spain, ² ICREA, Barcelona, Spain | Department of Metallurgy and Materials Engineering, Katholieke Universiteit Leuven, Kasteelpark Arenberg 44, B-3001, Leuven, Belgium. Department of Materials Science and Engineering, Monash University, Victoria 3800, Australia |
| | 'Imp Umr Cnrs 5223 - Université De Lyon, Villeurbanne, France | | POLAR TWIN WALLS IN STTIO3 VIA A FIRST-PRINCIPLES BASED MULTISCALE APPROACH | HIGHLIGHT EXAMINING THE AGEING BEHAVIOUR OF HIGH TEMPERATURE AL-Zr-V PRECIPITATES USING SMALL ANGLE X-RAY SCATTERING |
| 15.20 | | | Andrea Schiaffino ¹ , Massimiliano Stengel ^{1,2} | Dr Mohammed Azeem¹², Mr P Panagos¹², Dr Yiqiang Wang¹² Professor Graham McCartney²³, Dr Bita Ghaffari⁴, Dr Mei Li⁴, Dr J. W. Zindel⁴, Professor John E. Allison⁵, Professor Peter D Lee¹² |
| 13.20 | | | ¹ICMAB-CSIC, Campus UAB, 08193 Bellaterra, Spain, ²ICREA-Institució Catalana de Recerca i Estudis Avançats, 08010 Barcelona, Spain | School of Materials. The University of Manchester, Oxford Road, Manchester M13 PPL, United Kingdom, *Research Complex at Harwell, RAL, Didcot OX11 0FA, United Kingdom, *Advanced Materials Group, Faculty of Engineering, University of Nottingham, University Park, Nottingham N67 2RD, United Kingdom, *Materials Research Department, Ford Mator Company, Research and Innovation Center, M03182, P O Box 2053, Dear- born Ml48121, USA, 5Department of Materials Science and Engineering, University of Michigan, 2300 Hayward St., Ann Arbor, MI 48109, USA |
| | ENGINEERED SELF-GROWTH OF MYCELIUM-BASED BIOCOMPOSITE MEMBRANES OF TUNABLE STRUCTURAL CHARACTERISTICS AND PHYSICAL PROPERTIES | HIGHLIGHT ADVANCED THERANOSTIC SYSTEMS BASED ON NANOSTRUCTURE MATERIALS | TUNABLE DIELECTRIC THIN FILM PEROVSKITES: FROM THE HIGH THROUGHPUT SYNTHESIS TO THE HIGH FREQUENCY DEVICES | MICROSTRUCTURE – PROPERTIES RELATIONSHIP FOR 2024 ALUMINUM ALLOY AFTER HIGH- TEMPERATURE AGEING |
| | Athanassia Athanassiou¹, Muhammad Haneef¹, Fabio | <u>Dr Eleni Efthimiadou</u> ^{1,2} , M. Theodosiou ^{1,2} , G. Kordas ¹ | Dr Ioanna Bakaimi ¹ , Dr Jin Yao ¹ , Dr Samuel Guerin ² , Dr John Kavanagh ¹ , Dr He Xingli ³ , Professor Kees de Groot ³ , Professor Brian Hayden ¹² | Louise Briez¹, Dr. Vladimir Esin¹, Dr. Alain Köster¹, Matthieu Pachoutinsky², Dr. Jérôme Crépin¹ |
| 15.40 | Ferrando', Aidin Lak', José A. Heredia Guerrero', Luca Ceseracciu', Claudio Canale', Ilker S. Bayer', Despina Fragouli', Teresa Pellegrino', Roberto Cingolani' | 'Institute of Nanoscience and Nanotechnology, NCSR | "University of Southampton ,Southampton, United Kingdom, "Ilika Technologies, Southampton, United Kingdom, "Electronics and Computing Center, South- ampton, United Kingdom | MINES ParisTech, PSL Research University, Centre des Matériaux (CNRS UMR 7633), BP 87, Evry cedex 91003, France, Evry, France, 2Dassault Aviation, Saint-Cloud ,France |
| | ¹Istituto Italiano Di Tecnologia, Genova, Italy | D. Athens. Greece. Aghia Paraskevi Attikis. Greece. "University of Athens." Department of Chemistry, University of Athens. Panepistimioupoli Zografou, Athens. Greece, Greece | | |
| | WETTING ON MAGNETICALLY ACTUATED SUPERHYDROPHOBIC SURFACES | BIO-FUNCTIONALIZED MAGNETIC NANOPARTICLES FOR REMOTE CONTROL OF DIFFERENTIATION AND ORIENTED GROWTH OF NEURONAL CELLS | CONDUCTIVITY, SPIN-STATE AND MAGNETOSTRUC- TURAL TRANSITIONS IN COBALT PEROVSKITES INVESTIGATED BY X-RAY SPECTROSCOPIES AND NEUTRON DIFFRACTION | THE EFFECT OF SCANDIUM AND ZIRCONIUM ON THE MICROSTRUCTURE, MECHANICAL PROPERTIES AND EXTRUDABILITY OF A MODEL AL-Cu ALLOY |
| 16.00 | Mrs Blandine Bolteau ^{1,2,3} . Dr Etienne Barthel ³ , Dr Jérémie Teisseire ² , Dr Jérôme Fresnais ¹ | Dr Emilie Secret', Mr Elie Balloul', Mrs Aude Michel', | Jessica Padilla-Pantoja¹, Javier Herrero-Martín², Sara Lafuerza³, Arnau Romaguera¹, Francois Fauth², Javier Blasco⁴, <u>José-Luis García-Muñoz</u> ¹ | Dr Thomas Dorin ¹ , Dr Mahendra Ramajayam ¹ , Dr Timothy J. Langan ² |
| | **Laboratoire PHENIX, UMR CNRS 8234, UPMC Univ Paris 06, Paris, France; Jobaratoire SVI, UMR 125, CNRS/Saint Gobain, Aubervilliers, France, **Laboratoire SVI, UPMC Univ Paris 06, Paris, France** Fresnais*, Dr Ch Siaugue* Viscoption Univ Paris 06, URR 8234, PHEN Co-Chimie, Instit | Sorbonne Universités, UPMC Université Paris 6, CNRS, | 'Institut de Ciència de Materials de Barcelona ,ICMAB-CSIC, E-08193 Bellaterra, Spain, 'ALBA Synchrotron Light Facility, E-08290 Cerdanyola del Vallès,Spain, 'ESRF-European | ¹ Deakin University, Geelong, Australia, ² Clean TeQ Ltd., Melbourne, Australia |
| | | UMR 8234, PHENIX, Paris, France, ² Laboratoire Physi- co-Chimie, Institut Curie, CNRS UMR168, Paris-Science Lettres, UPMC Université Paris 6, Paris, France | Synchrotron Radiation Facility, F-38042 Grenoble Cedex, France, 'Instituto de Ciencia de Materiales de Aragón, IC- MA-CSIC-Universidad de Zaragoza, E-50009 Zaragoza, Spain | |
| | EPOXYDATION OF SUGAR-DERIVED FURANIC MOLECULES | ADVANCED PROBES FOR MULTIPLEXED INTRACELLULAR BIOMARKER DETECTION | ONE SITE, TWO SPIN ARRANGEMENTS: MAGNETIC ORDER IN MULTIFERROIC MN0.85C00.15W04 BY ELEMENT-SPECIFIC RESONANT MAGNETIC X-RAY SCATTERING | CLARIFICATION OF RELATIONSHIP BETWEEN BAKE-HARDENING RESPONSE AND CLUSTER FRACTIONS IN AN AI-Mg-SI ALLOY USING A HIGH-DETECTION-EFFICIENCY ATOM PROBE |
| 16.20 | Angela Marotta ¹² , Veronica Ambrogi ¹ , Alice Mija ² | Miss Maria-eleni Kyriazi ¹ , Dr Afaf El-Sagheer ²³ , Dr Tom Brown ² , Dr Peter Lackie ¹ , Dr Otto Muskens ¹ , Dr Antonios Kanaras ¹ | Dr Javier Herrero-Martin¹, Dr Claudio Mazzoli², Dr Sonia Francoual³, Dr Jörg Strempfer³, Dr Federica Fabrizi⁴, Dr Peter Bencok⁴, Dr Paul Steadman⁴, Dr Al- exander N. Dobryniň, Dr Alessandro Bombardí⁴, Prof. Dr. Alexander A. Mukhin³, Prof. Dr. Vassil Skumryev⁴, Prof. Dr. José Luis Garca-Muñoz² | Dr Yasuhiro Aruga¹. Dr Masaya Kozuka¹, Dr Tatsuo Sato¹ |
| | 'Università degli Studi di Napoli Federico II. Napoli. Italy, 'Université Nice Sophia Antipolis, Nice, France | ¹ University Of Southampton, Southampton, United Kingdom, ² University of Oxford, Oxford, United King- dom, ² Suez University, Suez, Egypt | "ALBA Synchrotrom Light Source, Cerdanyola del Vallès (Barcelona), Spain, 'Brookhaven National Lab., Nall. Synchrotron Light Source, Uplan, USA, 'Deubsch Elektronen Synchrotron (DESY), Hamburg, Germany, 'Diamond Light Source, Didco, United Kingdom, 'Probkhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russian 'Department de Fisica, Universitat Autonoma de Barcelona, Bellaterra (Barcelona), Spain, 'Institut de Ciencia de Materials de Barcelona, ICMAB-CSIC, Bellaterra (Barcelona), Spain | 'Kabe Steel, Ltd., Japan |
| | SWELLING BEHAVIOR AND STRUCTURAL CHAR- ACTERIZATION OF POLYTETRAFLUOROETHYLENE ELABORATED BY DIFFERENT PROCESSES: MOLDING, EXTRUSION, AND SPARR PLASMA SINTERING | PHYSICAL-CHEMICAL CHARACTERIZATION OF FUNCTIONALIZED NANOPARTICLES PhD Robin Capomaccio ¹ , PhD Isaac Ojea-Jiménez ¹ , | NANOSCALE IMAGING OF RESISTIVE DOMAINS ACROSS THE FIRST-ORDER METAL-TO-INSULATOR TRANSITION OF NANIO3 | |
| 16.40 | <u>Dr Ilham El Aboudi</u> ¹, Drl Ahmed MDARHRl¹, Mourad RZAIZI¹, ODILE BABOT², Laurent SERVANT² | PhD Dora Mehn ¹ , PhD Ines Osorio, Doctor Giacomo Ceccone ¹ , PhD François Rossi, PhD Douglas Gilliland ¹ , PhD Pascal Colpo ¹ , PhD Luigi Catzolai ¹ | Dr. Daniele Preziosi ¹ , Dr. X. Li2, Dr. A. Sander ¹ , L. Lopez-Mir ² , Dr. K. Bouzehouane ¹ , Dr. A. Gloter ² , Prof. A. Barthélémy ¹ , Dr M. Bibes ¹ | |
| | ¹ University Cadi Ayyad, Laboratory of Condensed Matter and Manostructures (LCMN), Faculty of Sciences and Technology, Marrakeck, Moracca ² University of Bordeaux, Institute of Molecular Sciences, Group of Molecular Spectroscopy, UMR5255, Talence, France | ¹ European Commission Directorate General Joint Research Centre Directorate F - Health, Consumers And Reference Materials ,Ispra, Italy | - Unité Mate de Physique CNRS/Thales and Univ. Paris-Sud, 3/405 Orasq, 1 avenue A. Frassel, 9/13/7 Palaiseau, France. *Laboratoire de Physique des Solides CNRS&Univ. Paris-Sud, 11 Bât, 510 - F9/14/5 Orasq. France. *Centre d'Investigació en Nanocciència i Nanolecnologia. CNR (CISC-CIN). Edifici CNP, Campus UAB, E-08193 Barcelona. Catalunya. Spain | |



| Symposium | В3 | B5 | B10 | B11 |
|---------------|--|---|---|--|
| Room | CR I Hall/M2 | Conference Room 1/M1 | Maurice Saltiel Hall II/M2 | Maurice Saltiel Hall III/M2 |
| Session Title | Single Crystals Ni-base Superalloys II | Borides and Nitrides | Fatigue & Fracture II - Case studies | High Temperature Deformation |
| Chairperson | Jonathan Cormier | Dariusz Kata | Michael Vormwald | I. Proriol Serre |
| | MECHANISMS OF M23C6 CARBIDE PRECIPIATION IN NI-BASE SUPERALLOY SINGLE CRYSTALS | INVESTIGATING CRACK PROPAGATION IN ZIRCONIUM DIBORIDE-BASED COMPOSITE CERAMICS BY MULTI- PHASE FIELD MODELING | S-N CURVES FOR FATIGUE ASSESSMENT OF TRUCK LEAF SPRINGS | ANALYSIS OF THE MECHANICAL RELAXATIONS OF 6061 AND 6082 (AL-Mg-Si) ALLOYS BY USING THE TIME-TEMPERATURE SUPERPOSITION PRINCIPLE |
| 15.00 | Dr. Leonardo Agudo Jácome ¹ , Bachelor Viola Mielke ¹ | Dr. Mohsen Asle Zaeem¹, Arezoo Emdadi¹, Dr. Bill Fahrenholtz¹, Dr. Greg Hilmas¹ 'Missouri University of Science and Technology, | <u>Dr. Georgios Savaidis¹, MSc Themistoklis Kiritsis²,</u> MSc Nikolaos Providakis² | <u>DrEng. Jose I. Rojas</u> ¹ , Prof. Daniel Crespo ² |
| | ¹ Bundesanstalt Für Materialforschung Und Prüfung. Berlin, Germany | Rolla, United States | 'Aristatle University of Thessaloniki, Thessaloniki, Greece. 'School of Pedagogical and Technological Education, Athens/N.Heraklion, Greece | Department of Physics — Division of Aerospace Engineering, Universital Politècnica de Catalunya, Castelldefels, Spain, ³ Department of Physics, Universi- tat Politècnica de Catalunya, Castelldefels, Spain |
| | IN SITU REAL TIME DIFFRACTION STUDY OF PLASTIC TRANSIENTS WITHIN A SINGLE CRYSTAL SUPER- ALLOY FOLLOWING STRESS JUMPS DURING A HIGH TEMPERATURE CREEP TEST | THERMAL CONDUCTIVITY MODEL OF SI3N4 CERAMICS | A FAILURE ANALYSIS INVESTIGATION OF A TRANSMISSION PRECISION ROLLER CHAIN | INFLUENCE OF DIFFERENT COOLING REGIMES ON THE HOT DUCTILITY OF CONTINUOUSLY CASTED MICRO-ALLOYED STEEL |
| | Roxane Tréhore! ¹ , Thomas Schenk ¹ , Gabor Ribarik ^{1,2} , Alain Jacques ¹ , Pierre Bastie ^{4,5} , Jonathan Cormier ³ , Lucile Dezerald ¹ | Doctor Xiao-Shan Ningʻ, Mengmeng Pengʻ, Xingli Liuʻ ¹ Tsinghua University, Beijing, China, | MSc Sophia Papanikolaou ¹ , Mr Alexandros Antona- tos ² , Mr. Mihalis Fikas ² , MSc Dimitrios Fasnakis ¹ , Mr. Andreas Maropoulos ³ | DiplIng. Harald Radlwimmer ¹ , DiplIng. Pierre Wiehoff ¹ , DiplIng. Tomasz Wojcik ¹ , Dr. Jakob Six ² , Dr. Sergiu Ilie ² , Prof. Ernst Kozeschnik ¹ |
| 15.20 | Institut Jean Lamour, Nancy, France, ² Department of Physics, Eötvis University, Budapest, Hungary, ³ Institut P Prime, Futuroscope Chasseneuil , France, ⁴ LIPhy, Saint Martin d'Hères, France, ⁵ ILL, Grenoble, France | Haidian district, CHÍNA | ¹ Technological Educational Institute of West Macedonia, Kazani, Greece, ² Testing Research & Standards Center PCC, Athens, Greece, ² School of Mechanical Engineering of the Aristotle University of Thessaloniki, Thessaloniki, Greece | ¹ TU Wien - Institute of Materials Science and Technology, Vienna, Austria, ² voestalpine Stahl GmbH, Linz, Austria |
| | SECTION SIZE ON THE FORMATION TENDENCY OF THE PLATFORM STRAY GRAINS IN A NI-BASED (HIGH AI) SINGLE CRYSTAL SUPERALLOY | PREPARATION AND CHARACTERIZATION OF BULK NANOCRYSTALLINE HAFNIUM DIBORIDE | CHARACTERIZATION OF DAMAGE MECHANISM FOR INDUSTRIAL COMPONENTS SUBJECTED TO COMBINED DYNAMIC IMPACT LOADING AND SLIDING | MODELING THE THERMOMECHANICAL LOAD- INGS-INDUCED DAMAGE IN CERAMIC HONEYCOMB STRUCTURES. APPLICATION TO DIESEL PARTICU- LATE FILTERS REGENERATION |
| | | Assoc, Prof. NAZLI AKCAMLI ¹² , Preparation And Characterization Of Bulk Nanocrystalline Hafnium Diboride DUYGU AĞAĞÜĞULLARİ', Preparation And Characterization Of Bulk Nanocrystalline Hafnium | PhD student Reza Karimi Bakhshandi¹, Associate Professor Anders Gåård¹, Professor Jens Bergström¹ | Pr Michel Boussuge¹. Dr Arnaud Beurotte¹. Dr Laurent Jeanfaivre¹ |
| 15.40 | <u>Haigen Zhao</u> ¹, Shusuo Li¹, Yanling Pei¹, Shengkai Gong¹, Huibin Xu¹ | Diboride ÖZGE BALCI ¹³ , Preparation And Charac- terization Of Bulk Nanocrystalline Hafnium Diboride ISMAIL DUMAN', Preparation And Characterization Of Bulk Nanocrystalline Hafnium Diboride M. LÜTFI ÖVEÇOĞLU ¹ | ¹ Karlstad University, Karlstad, Sweden | 'MINES-ParisTech Materials Center, Evry, France |
| | 'School of Materials Science and Engineering, Beihang University, Beijing, China | ¹ İstanbul Technical University, İstanbul, Turkey, ² Bursa Technical University, Bursa, Turkey, ³ Koç University, İstanbul, Turkey | | |
| | EFFECT OF SUBSTRATE ORIENTATIONS ON MICRO- STRUCTURE EVOLUTION AND FAILURE BEHAVIOR FOR SINGLE CRYSTAL SUPERALLOYS IN RECAST LAYER | LOW-TEMPERATURE AUTOCLAVE SYNTHESIS OF CHROMIUM BORIDES | CONSTITUTIVE LAWS AND FINITE ELEMENT MODELING FOR THE FATIGUE OF TEXTILES USED IN CAROTID ARTERY REPAIR | FATIGUE LIFE CALCULATION OF DUCTILE CAST IRON AND METASTABLE AUSTENITIC STEELS BASED ON MEASUREMENT OF PHYSICAL MATERIALS PROPERTIES |
| 16.00 | <u>Dr Tao Dong</u> ¹, Dr Chengtong Gao¹, Dr Kaiming Liang¹, associate professor Yanling Pei¹, Professor Shusuo Li¹, Professor Shengkai Gong¹ | <u>Ph.D. Duygu Ağaoğulları</u> ¹, Assist. Prof. Dr. Nazlı Akçamlı², Prof. Dr. Lütfi Öveçoğlu¹ | Dr. Leonidas A. Spyrou', <u>loannis D. Gavardinas</u> ² ; Athanasios Athanasoulas ³ , Dr. Konstantinos Spanos ³ , Professor Athanasios D. Giannoukas ³ , Professor Antonios E. Giannakopoulos ⁴ | Prof. Dring. Tilmann Beck', Dring. Marcus Klein', Dipling. Benjamin Jost', Dring. Marek Smaga', Prof. Dring. Dietmar Eifter' |
| | 'School of Materials Science and Engineering, Beihang University, No. 37 Xueyuan Road, China | ¹ Istanbul Technical University, Maslak, Turkey, ² Bursa Technical University, Yıldırım, Turkey | "Institute for Research & Technology – Thessaly, Centre for Research & Technology Hellas (EERTH), Volas, Greece, "Depart- ment of Civil Engineering, University of Thessaly, Volas, Greece, "Department of Vascular Surgery, Faculty of Medicine, University of Thessaly, Lorisa, Greece, "National Technical University of Athens, Mechanics Division, Athens, Greece | Institute Of Materials Science And Engineering (WKK), TU Kaiserslautern, Kaiserslautern, Germany |
| | EFFECT OF STRESS AND SECONDARY ORIENTATION ON THE OXIDATION-INDUCED RECRYSTALLIZATION BEHAVIOR OF A NI-BASED SINGLE CRYSTAL SUPERALLOY | GRADIENT COATINGS BASED ON UHTCs | FATIGUE PROPERTIES OF COCR SCAFFOLDS OBTAINED BY ADDITIVE MANUFACTURING | NANO-INDENTATION CREEP BEHAVIOUR OF ROLLED AL-4.5Cu-5TIB2 IN-SITU COMPOSITE AND ITS CORRELATION WITH THE MICROSTRUCTURE BY ORIENTATION IMAGING |
| 16.20 | <u>Dr. Lu Qin</u> ¹, Pro. Yanling Pei¹, Pro. Shusuo Li¹, Pro. Shengkai Gong¹, Pro. Huibin Xu¹ | <u>Dr Oleg Grigoriev</u> ', Dr. Oleg Udovyk ¹ | Dr. Bram Neirinck', ir Karel Lietaert ¹² , ir Antonio Cutolo ³ , prof. Brecht van Hooreweder ³ | <u>Ms. Monalisa Manda</u> l ¹ , Dr. Rahul Mitra ¹ |
| | 'School of Material Science and Engineering, Beihang University, Beijing, China | ¹ Institute For Problems Of Material Science Of Nasu, Kiyv, Ukraine | '3DSystems, Leuven, Belgium, 'Department of Materials Engi- neering, KU Leuven, Leuven, Belgium, 'Department of Mechanical Engineering, KU Leuven, Leuven, Belgium | 'Indian Institute Of Technology, Kharagpur, Kharagpur, India |
| 16.40 | | | FINITE ELEMENT MODELING OF THE RESPONSE OF CIRCULAR SIMPLY SUPPORTED GLARE FIBER- METAL LAMINATES UNDER FRICTIONLESS OBLIQUE INDENTATION Dr. George Bikakis', Prof. DrIng Alexander Savaidis' | STATISTICAL APPROACH FOR THE AUTOMATED REGRESSION OF CREEP EXPERIMENTS Irina Rostyakova¹, Ekaterina Turchenko¹, Philip Wollgramm², Gunther Eggeler², Ingo Steinbach¹ ¹The Interdisciplinary Centre for Advanced Moterials Simulation (ICAMS), Ruhr-Universität Bochum, Bochum, Germany, Zlehrstuhl |
| | | | Department Of Mechanical Engineering Educators, Athens, Greece | Werkstoffwissenschaft. Institut für Werkstoffe. Fakultät für Maschinenbau. Ruhr-Universität Bochum, Bochum, Germany |



| Symposium | C1 | C2 | C6 | D2 |
|---------------|--|---|---|--|
| Room | Friends of Music Hall/M1 | Conference Room 4/M1 | I-15/M1 | Museum Hall /M2 |
| Session Title | Coatings and thin films 2/6 Coatings structure I | Ultrashort pulsed laser processing | Brazing, diffusion bonding | Metals & Ceramics II: Phase transformations & plasticity |
| Chairperson | T. Polcar, D. Holec | Philippe Delaporte | Ivan Kaban | Wayne Kaplan |
| | HIGHLIGHT NOVEL THIN PROTECTIVE COATINGS FOR AUTOMOBILE ENGINE VALVES | KEYNOTE/INVITED NON-ABLATIVE FEMTOSECOND LASER PROCESSING OF TRANSPARENT SUBSTRATES: FROM FUNDAMENTALS TO APPLICATIONS | HIGHLIGHT EFFECT OF HEAT EVOLUTION ON MICROSTRUCTURE AND JOINT PERFORMANCE UPON SOLDERING WITH REACTIVE NANO-MULTILAYERS | CRYSTAL PLASTICITY PARAMETER IDENTIFI- CATION BY INTEGRATED DIC ON MICROSCOPIC TOPOGRAPHIES |
| 15.00 | <u>Prof. Zbigniew Grzesik</u> ¹, M.Sc. Monika Drożdż¹, Dr. Monika Migdalska¹, Dr. Karol Kyzioł¹ | Dr Yves Bellouard ¹ | Dr. Bastian Rheingans ¹ , Prof. Dr. Jolanta Janczak-Rusch ¹ , Dr. Axel Schumacher ² , Dr. Stephan Knappmann ² , Dr. Lars P. H. Jeurgens ¹ | <u>Dr.ir. Johan Hoefnagels</u> ¹, dr. Morgan Bertin², Dr. Chaowei Du¹, Prof. Francois Hild² |
| | ¹ AGH University of Science and Technology, Krakow, Poland | or Tree Samuella | Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies & Corrosion, Dübendorf, Switzerland, ² Hahn-Schickard, Villingen-Schwenningen, Germany | Eindhoven University of Technology, Eindhoven, the Netherlands, ² LMT, ENS Cachan, CNRS, Université, Paris-Saclay, France |
| | EFFECTS OF ANNEALING ON THE NANOSTRUCTURE OF PVD CRCUAGN NANOCOMPOSITE COATINGS | | EFFECT OF SURFACE SELF-NANOCRYSTALLIZATION ON DIFFUSION BONDING BETWEEN TC11 TITANIUM ALLOY AND TIAI ALLOY | COMBINING HRDIC, EBSD AND ECCI TO STUDY THE EFFECT OF PARTICLE SIZE ON THE DEFORMATION STRUCTURES OF A NICKEL-BASED SUPERALLOY |
| 15.20 | <u>Dr. Xingguang Liu¹</u> , Prof. Allan Matthews², Dr. Adrian Leyland¹ | [†] EPFL - STI/IMT/GALATEA LAB, Neuchâtel, Switzerland | Xiao-chen Wang ¹ , <u>Xue-song Fu</u> ¹ , Guo-qing Chen ¹ , Wen-long Zhou ¹ | Dr. Allan Harte ¹ , Carsten Drouven ² , Stefan Zaefferer ³ , Michael Preuss ¹ , João Quinta da Fonseca ¹ |
| | ¹ The University of Sheffield, Sheffield, United Kingdom, ² The University of Manchester, Manchester, United Kingdom | | [†] Dalian University Of Technology, Dalian, | ¹ The University of Manchester, Manchester, United Kingdom. ² RWTH Aachen University Templergraben, Aachen, Germany, ³ Max-Planck Institute for Iron Research GmbH, Germany |
| | MICROSTRUCTURAL CHARACTERIZATION OF Hf-DOPED CRALN THIN FILMS DEPOSITED BY DC MAGNETRON SPUTTERING | EXPERIMENTAL INVESTIGATIONS OF FUNDAMENTAL MECHANISMS INVOLVED IN FEMTOSECOND LASER MODIFICATION OF DIELECTRIC MATERIALS | MICROSTRUCTURE AND STRENGTH OF TI ALLOY JOINTS BRAZED WITH Ag-28Cu | TEM CHARACTERIZATION AND PRECIPITATION SIMULATION OF SECONDARY PHASES IN NI-BASE SUPERALLOY RENE 65 |
| 15.40 | Prof. DrIng. DiplWirt.Ing. Wolfgang Tillmann ¹ , Nelson Filipe Lopes Dias ¹ , Dominic Stangier ¹ | <u>Dr Stephane Guizard</u> ' | Dr. Galina Kasperovich ¹ , Dr. Joachim Gussone ¹ , Dr. Jan Haubrich ¹ , Elodie Boller ² , Prof. Dr. Guillermo Requena ¹ | Tomasz Wojcik ¹ , Markus Rath ¹ , Prof. Ernst Kozeschnik ¹ |
| | ¹ Institute Of Materials Engineering, TU Dortmund, Dortmund, Germany | ¹ Laboratoire Des Solides Irradiés, Palaiseau, France | ¹ German Aerospace Center (DLR), Cologne, Germany, ² European Synchrotron Radiation Facility (ESRF), Grenoble, France | 'Institute for Materials Science and Technology, TU Wien, Wien, Austria |
| | STUDY ON THE ATOMIC AND ELECTRONIC STRUCTURE IN CRN/ALN MULTILAYERS | ULTRAFAST LASER SURFACE STRUCTURING USING CYLINDRICAL VECTOR POLARIZATION STATES | MICROSTRUCTURE CHARACTERISTICS OF JOINTS AFTER INDUCTION BRAZING OF TI-6AL-4V ALLOY WITH TI-Zr-Cu-Pd-Sn AMORPHOUS FILLER FOIL | PRECIPITATION PHENOMENA AND STRENGTHEN- ING MECHANISMS IN ULTRAFINE-GRAINED AND NANOCRYSTALLINE AL-Zn-Mg-Cu ALLOY |
| 16.00 | Dr. Zaoli Zhang', Mr Xunlong Gu', Dr. David Holec ² , Dr. Matthias Bartosik ² , Professor Paul H Mayrhofer ³ | Mr Evangelos Skoulas ¹² , Dr Emmanuel Stratakis ¹² | M.Sc.Eng. Kamil Badura ¹ . Anna Sypien ¹ | Research Assistant Professor Haiming Wen ¹² |
| | ¹ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, ² Department of Physical Metallurgy and Materials Testing, Montanuni- versität Leoben, Austria, ³ Institute of Materials Science and Technology, TU Wien, Austria | ¹ Foundation for Research & Technology-(IESL), Heraklion, Greece ² Material Science & Technology Departement - Univercity of Crete, Heraklion, Greece | ¹Institute Of Metallurgy And Materials Science. Polish Academy Of Sciences, Krakow, Poland | ¹Idaho State University, Idaho Falls, United States, ²Idaho National Laboratory, Idaho Falls, United States |
| | INSIGHTS INTO THE GROWTH OF Gan AND FE BASED NITRIDES USING ELECTRON BEAM PHYSICAL VAPOUR DEPOSITION. | WAVEGUIDE LASERS FABRICATED BY FEMTOSEC- OND-LASER INDUCED LOCAL MODIFICATION OF THE GLASS COMPOSITION | DIFFUSION BONDING OF TIAL TO TIGALAY ASSISTED BY NANOLAYERS | UNDERSTANDING THE NANOSTRUCTURES OF EPITAXIAL STRAIN-ENGINEERED FERH THIN FILMS |
| | <u>Dr Robert Davies</u> ¹ , Dr Michelle Moram ¹ , Miss Simona Pace ¹ , Miss Izzati Nadzri ¹ | Dr. Jesus Hoyo', Dr. Pedro Moreno-Zárate ² , Dr. Germán Escalante ³ Dr. Juan Antonio Vallés ⁴ . Prof. | <u>Dr Sónia Simões</u> ', Dr Filomena Viana', Dr. Ana Sofia Ramos², Prof. Teresa Vieira², Dr. Manuel F. Vieira¹ | Dr. Di Wang ^{1,2} , Dr. Ralf Witte ¹ , Dr. Sabine Schlabach ^{2,3} , Dr. Robert Kruk ¹ , Dr. Christian Kuebel ^{1,2} , Prof. Horst Hahn ^{1,4} |
| 16.20 | ¹ Imperial College London, London, United Kingdom | Paloma Fernández ² , <u>Prof. Javier Solis</u> 'Laser Processing Group, Instituto de Óptica-CSIC, Madrid, Spain. ² Industrial Engineering, Tepexi Higher Technological Institute, Tepexi de Rodríguez, Mexico. ² Depto. de Física de Materiales, Facultad de Físicas, Univ. Complutense, Madrid, Spain. ² Departomento de Física Aplicada-I3A, Focultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain | CEMMPRE. Department Of Materials And Metallurgical Engineering, University Of Porta, Portugal, Porto, Portugal, CEMMPRE, Department of Mechanical Engineering, University of Coimbra, Portugal, Coimbra, Portugal | Institute of Manotechnology, Karlsruhe Institute of Technology, Eggenstein-leopoldshafen, Germany, *Karlsruhe Nano Micro Facility, Karlsruhe Institute of Technology, Eggenstein-leopoldshafen, Germany, *Institute for Applied Materials, Karlsruhe Institute of Technology, Eggenstein-leopoldshafen, Germany, *KIT-TUD-Joint Research Laboratory Nanomaterials, Technical University Darmstadt, Darmstadt, Germany |
| | STRUCTURAL AND MECHANICAL PROPERTIES OF ZrMo THIN FILMS: FROM THE NANOCRYSTALLINE TO THE AMORPHOUS STATE | ULTRAFAST LASER FABRICATION OF BIOMIMETIC NANO STRUCTURED FUSED SILICA SURFACES WITH CIRCULAR POLARIZATION | THE EFFECT OF A ZINC COATING ON THE BONDING OF ALUMINIUM TO LOW CARBON STEEL | SPONSOR PRESENTATION: FEI - LATEST DEVELOP- MENTS IN ABERRATION CORRECTED LOW kV STEM IMAGING AND SPECTROSCOPY |
| 4//6 | MSc Alejandro Borroto ¹² , Dr Stéphanie Bruyère ¹ , Dr. Nicolas Thurieau ¹ , Dr. Christine Gendarme ¹ , Dr. Emilio Jimenez-Piqué ³ , Dr. Joan Josep Roa ³ , Prof. Jean-François Pierson ¹ , Prof. Frank Mücklich ² , Dr. David Horwat ¹ | PhD Student Alexandros Mimidis ¹² , PhD Student Antonis Papadopoulos ¹² , PhD Student Evangelos Skoulas ¹² , PhD Emmanuel Stratakis ¹² | Mr Alireza Valizadeh', Professor Isaac Chang', Dr lan Stone' Brunel Centre for Solidification Technology, Brunel University London, Uxbridge, UBB 3PH, UK, Greater London, United Kingdom | Dominique Detitle |
| 16.40 | Institut Jean Lamour, UMR 7198. Université de Lor- raine. C5 50840 Parc de Saurupt, 54011 Nancy, France, Department of Materials Science and Engineering, Chair of Functional Materials. Saarland University, Campus D3.3, D-66123 Saarbrücken, Germany, ³ De- partment of Clencia de Materiales e Ingenieria Metal- urgica, Universitat Politecnica de Catalunya, C/Eduard Maristany 10-14 (EEBE), 08019 Barcelona, Spain | ¹ Foundation for Research and Technology (FORTH), Institute of Electronic Structure and Laser (IESL), Greece, ² University of Crete, Material Science & Technology Department, Greece | | |
| | | | | |



| Symposium | ALZUI/ | D9 | E1 | E2 |
|---------------|--|--|---|---|
| Room | Library Hall/M2 | Maurice Saltiel Hall I/M2 | CR II Hall/M2 | CR III Hall/M2 |
| Session Title | Mechanical testing at micro/nano scales - Deformation Mechanisms II | Advanced Nuclear Steels (II) | Electrodes/Hydrogen storage | Li air batteries / Li cathodes |
| Chairperson | Daniel Caillard & Mohsen Asle Zaeem | M. Serrano García | Bogdan Kuchta & Tanja Kallio | T. Zawodzinski |
| | HIGHLIGHT KINETICS OF DISLOCATIONS, SOLID SOLUTION HARDENING AND DYNAMIC STRAIN AGEING IN Fe, Fe ALLOYS, AND STEELS | <u>KEYNOTE/INVITED</u> DISPERSION CONTROL OF OXIDE PARTICLES FOR HIGH PERFORMANCE ODS FERRITIC STEELS | KEYNOTE/INVITED HIERARCHICAL STRUCTURED FOAMS OF POROUS NITROGEN-DOPED CARBON FOR PEM FUEL CELLS | KEYNOTE/INVITED CATHODE REACTIONS IN RECHARGEABLE APROTIC Li-02 BATTERIES |
| 15.00 | Daniel Caillard 'Cemes-cnrs, Toulouse, France | Professor Akihiko Kimura | Prof. Dr. Rolf Hempelmann | Prof Peter Bruce |
| | NEW UNDESTANDING OF DEFORMATION IN TIAL ALLOYS USING A HYBRID STUDY OF IN-SITU TRANSMISSION ELECTRON MICROSCOPY EXPERIMENTS AND MOLECULAR DYNAMICS | | | |
| 15.20 | Dr. Seong-Woong Kim¹, Jaemin Kim³, Prof. Seung- Hwa Ryu², Dr. Young-Sang Na¹, Dr. Seung-Eon Kim¹, Prof. Andrew Minor² | Kyoto University, Uji. Japan | Transfer center Sustainable Electrochemistry at Saarland University, Saarbruecken, Germany | University Of Oxford, Oxford, United Kingdom |
| | "Korea Institute of Materials Science, Changwon, South Korea, Lawrence Berkeley National Laboratory, Berkeley, USA, "Korea Advanced Institute of Science and Technology, Daejeon, South Korea | | | |
| | THE INFLUENCE OF INTERGRANULAR CONSTRAINTS ON THE SLIP SYSTEMS OF TIMETAL-407 ALLOY | INVESTIGATION OF RECRYSTALLIZATION MECHA- NISMS IN A FERRITIC ODS STEEL USING EBSD AND MONTE CARLO MODELLING | HIGHLIGHT HYDROGEN ADSORPTION STORAGE: LINKING MATERIALS DEVELOPMENT TO SYSTEM PERFORMANCE | CHEMICAL STABILITY OF ETHER-BASED ELECTROLYTES IN LI-02 BATTERIES |
| 15.40 | Dr Bo Pang¹, Prof M.H. Loretto¹, Dr Matthew Thomas², Dr Yu-Lung Chiu¹ | Benjamin Hary ¹ , Pr Roland Loge ² , Dr Thierry Baudin ³ , Dr Joel Malaplate ¹ , Dr Yann De Carlan ¹ | Richard Chahine¹ | Dr. Sergio Brutti ¹ , Dr. Marco Carboni ² , Dr. Daniela Giacco ² , Dr. Riccardo Spezia ³ , Dr. Andrea Giacomo Marrani ² |
| | "School of Metallurgy and Materials, The University of Birmingham, Birmingham, United Kingdom, ² Timet, Birmingham, United Kingdom | ¹ DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, Gif Sur Yvette, France, ¹ UMTM. Ecole Polytechnique Fédérale de Lausanne, 2002 Neuchätel, Neuchätel, Switzerland, ³ CCMO, Université Paris-Sa- clay, UMR CNRS 8182, 91405 Orsay, Orsay, France | ¹Hydrogen Research Institute, Université du Québec à Trois-Rivières, Quebec, Canada | ¹ University Of Basilicata, Potenza, Italy, ² University of Rome La Sapienza, Roma, Italia, ² CNRS-LAMBE, Université d'Evry, Evry, France |
| | UNDERSTANDING AND QUANTIFYING THE DEFOR- MATION MECHANISMS DURING SUPERPLASTIC DEFORMATION OF THE AZ31 Mg-ALLOY | APT AND TEM INVESTIGATION OF THE EVOLUTION OF THE MICROSTRUCTURE OF ION IRRADIATED ODS STEEL | DEVELOPMENT OF NEW INTERMETALLIC HYDRIDES FOR HYDROGEN STORAGE APPLICATIONS | LINIO.5Mn1.504 PARTICLES SYNTHESIZED BY AERO SOL SPRAY PYROLYSIS AND THEIR EVALUATION FO NEXT - GENERATION Li-ion CATHODE MATERIALS |
| 16.00 | Thibaut DESSOLIER!, Dr Francine Rousel-Dherbey², Dr Frédéric Charlot², Pr Laurent Delannay³, Dr Pierre Lhuissier¹, Associate Pr Guithem Martin¹, Dr Jean-Jacques Blandin¹ | <u>Dr Constantinos Hatzoglou</u> !, Dr Bertrand Radiguet!, Pr Philippe Pareige [!] | Dr. Bernard Tougas ¹ , Dr. Jacques Huot ² | Dr Georgia Kastrinaki ¹ , Mr George Ganas ¹ , Mr Dimitrios Zarvalis ¹ , Dr Athanasios G. Konstando- poulos ¹² , Dr Daniele Versaci ³ , Prof Nerino Penazzi ³ , Prof Silvia Bodoardo ³ , Dr Irabte de Meatza ⁴ , Dr Migue |
| | 'Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, Grenoble, France, 'Univ. Grenoble Alpes, CNRS, Greno- ble INP, CMTC, Grenoble, France, 'Université Catholique de Louvain, Institut de Mécanique, Matériaux et Génie Civil, Louvain-la-Neuve, Belgium | ¹Groupe De Physique Des Matériaux (gpm), Normandie Université, Université Rouen, France | 'Centre de Métallurgie du Québec, Trois-Rivières, Canada, ² Université du Québec à Trois-Rivières, Trois-Rivières, Canada | Bengoechea ⁴ 'CERTH, Thessaloniki, Greece, ² Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Politecnico di Tor no, Torino, Italy, ⁴ IK4-CIDETEC, San Sebastian, Spain |
| | MICROSTRUCTURAL EVOLUTION IN MULTILAYERED THIN FILMS WITH DIFFERENT INTERFACE STRUCTURE UNDER SLIDING CONTACT | COMPOSITIONAL EFFECTS ON THE PRECIPITATE MICROSTRUCTURE OF RAFM STEELS AND INFLUENCE ON MECHANICAL PROPERTIES | DESIGN, DEVELOPMENT, CONSTRUCTION AND OPERATION OF A NOVEL METAL HYDRIDE COMPRESSOR | AQUEOUS ELECTRODE PROCESSING STRATEGIES FOR HIGH-ENERGY Li1.2Ni0.16Mn0.56Co0.0802 LITHIUM-Ion CATHODES |
| | Ankush Kashiwar ¹² Dr. Zhao-Ping Luo ³ , Dr. Xiaoke Mu ¹⁴ , Dr. Horst Hahn ¹² , Dr. Ruth Schwaiger ¹⁵ , Dr. Christian Kübel ¹⁵ | Athina Puype ¹ , Lorenzo Malerba ² , Nico De Wispe- laere ³ , Roumen Petrov ^{1,4} , Jilt Sietsma ^{1,4} | Dr. Henrik Von Storch ¹ , Dr. Georgios Karagiorgis ^{2,2} , Dr. Chris N. Christodoulou ^{2,2} , Dr. Georgios Tzamalis ^{2,4} , Konstantinos Deligiannis ² , Demetrios Hadijpetrou ² , Marios Odysseos ² , Dr. Martin Roeb ¹ , <u>Dr. Christos</u> | Arefehsadat Kazzazi ¹² , Dr. Agnese Birrozzi ¹² , Dr. Jina Laszczynski ¹² , Dr. Jan von Zamoryi ² , Maral Hekmatfar ¹² , Dr. Dominic Bresser ¹² , Prof. Dr. Stefan Passerini ¹² |
| 16.20 | 'Karlsruhe Institute of Technology, Eggenstein-Leo- poldshafen, Germany, 'Technische Universität Darmstadt, Darmstadt, Germany, 'Shenyang National Laboratory for Materials Science, Shenyang, China, 'Helmholtz Institute UIm for Electrochemical Energy Storage, UIm, Germany, 'Karlsruhe Nano Micro Facility, Karlsruhe Institute of Technology, Eggenstein-Leopold- shafen, Germany | ¹ UGent, Zwijnaarde, Belgium, ² SCK CEN, Mol, Belgium, ³ OCAS, Zwijnaarde, Belgium, ⁴ TUDelft, Delft, Netherlands | Agrafiotis¹, Prof. Dr. Christian Sattler¹ ¹German Aerospace Center (dlr), Cologne, Germany, ²HYSTORE Technologies, Nicosia, Cyprus, ¹Frederick University, Nicosia, Cyprus, ¹DEMOKRITOS (NCSRD), Athens, Greece | 'Helmholtz Institute Ulm (HIU), Ulm, Germany, *Karl- sruhe Institute of Technology (KIT), Karlsruhe, Germa |
| | TEMPERATURE-DEPENDENT PLASTIC HYSTERESIS IN HIGHLY CONFINED POLYCRYSTALLINE NB FILMS | CHARACTERISATION OF MECHANICAL PROPERTIES OF Fe10Cr4AI STEEL UNDER VACUUM AND IN PBBI EUTECTIC | | THERMODYNAMIC INVESTIGATION OF LAYER STRUCTURED LINIXMINGCOZOZ AS LITHIUM ION BATTERY CATHODE MATERIALS |
| 16.40 | Ms Sana Waheed ¹ , Dr Daniel Balint ¹ , Dr Finn Giuliani ¹ | <u>Fosca Di Gabriele',</u> Michal Chocholousek', Anna Hojna', Peter Szakalos ² , Zbynek Spirit' | | Ms Maryam Masoumi ¹ , Dr. Damian Marlon Cupid ¹ , Prof. Hans Jürgen Seifert ¹ |
| | Imperial College London, London, United Kingdom | ¹CVR, Rez, Czech Republic.²KTH, Stockholm, Sweden | | 'Karlsruhe Institute of Technology. Eggenstein-Leopoldshafen, Germany |

EUROMAT2017 6<u>7</u>



| Symposium | E3 | FI | F4 |
|---------------|---|---|--|
| Room | Rehearsal Room 5.17/M1 | 3-20/M1 | 3-21/M1 |
| Session Title | Thermoelectrics I | Degradable and Natural Polymers for Tissue Engineering | Hard materials to repair bone and teeth |
| Chairperson | Alexander Burkov | Simeon Agatopoulos | Helen REVERON |
| | HIGHLIGHT HYBRID PHOTOVOLTAIC THERMOELECTRIC GENERATORS FOR ENHANCED SOLAR ENERGY CONVERSION | KEYNOTE/INVITED - ESB CONTRIBUTION ENGINEERING BIOMATERIALS FOR BONE TISSUE REGENERATION | HIGHLIGHT MACROSCALE ARCHITECTURE OF HYDROXYAPATITE BIOCERAMICS AFFECTS BOTH OSTEOGENESIS AND ANGIOGENESIS |
| 15.00 | <u>Professor Dario Narducci</u> ¹, Doctor Bruno Lorenzi¹ | M. Chatzinikolaidou ¹² , M. Kaliva ¹² , L. Papadimitriou ¹² , A. Georgopoulou ¹² , E. Mygdali ² , M. Vamvakaki ¹² | David Marchat ^t |
| | ¹ University Of Milano Bicocca, Dept. Materials Science, Milano, Italy | | ¹Ecole Mines Saint-etienne, CIS-EMSE, Saint-etienne, France |
| | NANOMATERIAL-SOLUTIONS TO SHAPE-ADAPTABLE THERMOELECTRIC DEVICES | | CHARACTERIZATION OF OPEN-CELL AND GLASS-CERAMIC FILLED CELLULAR ZIRCONIA STRUCTURES FOR BIOMEDICAL APPLICATIONS |
| 15.20 | Silvia Ortega ¹ , Albert Massaguer ² , Toni Pujol ² , Andreu Cabot ^{1,3} , Doris Cadavid ¹ , <u>Yu Liu¹</u> | ¹ Dept. of Materials Science and Technology, University of Crete, P.O. Box 2208, 71003 ,Heraklio, Greece, 2IESL-FORTH, Heraklio, Greece | Professor Bruno Henriques ¹² , Professor Márcio Fredel ² , Dr Joana Mesquita-Güimarães ¹ , Professor Júlio CM Souza ² , Mr Paulo Pinto ¹ , Mr Douglas Fabris ² , Professor Fitipe S Silva ¹ |
| | ¹ Catalonia Institute For Energy Research - IREC, Sant Adria De Be- sos, Spain, ² Departament d'Enginyeria Mecànica i de la Construcció Industrial, Universitat de Girona, Girona, Spain, ³ Catalan Institution for Research and Advanced Studies - ICREA, Barcelona, Spain | | ¹CMEMS-University of Minho, Guimarães, Portugal, ²CERMAT - Federal University of Santa Catarina, Florianópolis, Brazil |
| | HIGHLIGHT HIGHLY EFFICIENT IV-VI BASED THERMOELECTRIC MATERIALS AND DEVICES | DUAL SYRINGE DRUG DELIVERY NANOSCAFFOLD FOR EFFECTIVE IMPLANTATION IN ORTHOPAEDIC APPLICATIONS | CAN AGEING AND AIRBORNE-PARTICLE ABRASION JEOPARDIZE THE STRENGTH OF BIOMEDICAL-GRADE ZIRCONIA CERAMICS? |
| 15.40 | Prof. Yaniv Gelbstein ¹ | Mrs. Aikaterini-Rafailia Tsiapla¹, Mrs. Varvara Karagkiozaki¹², Mrs. Fotini Pappa¹², Mrs. Veroniki Bakola¹, Mrs. Eleni Pavlidou³, Mrs. Theodora Choli-Papadopoulou⁴, Mr. Ioannis Moutsios¹, Mrs. Panagiwta Gkertsiou¹, Mr. Stergios Logothetidis¹ | Jasna Cotic', Peter Jevnikar', Andraz Kocjan² |
| | ¹ Ben Gurion University, Beer-Sheva, Israel | 'for 'Thin Films- Nanosystems & Nanometrology', Nanomedicine Group. Department of Physics. Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, 'BL Nanobiomed P.C. Thessaloniki, Greece, Thessaloniki, Greece, 'Department of Physics. Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, 'Department of Chemistry, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece | 'Department of Prosthodontics, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia, 'Department for Nanostructured Materials, Jožef Stefan Institute, Ljubljana, Slovenia |
| | A HIGH-THROUGHPUT INVESTIGATION OF THE THERMOELECTRIC PROPERTIES OF MOLYBDENUM TIN TELLURIDE ALLOYS | NANOMECHANICAL CHARACTERIZATION OF FIBROUS PVA:PEDOT:PSS SCAFFOLDS FOR NERVE GRAFT CONDUITS Foteini Pappa , Varvara Karagkiozaki , Spiros Kassavetis , Maria Gioti , | DELAYED DELAMINATION MECHANISMS OF DIAMOND-LIKE CARBON COATINGS ON ARTICULATING BIOMEDICAL IMPLANTS |
| 16.00 | <u>Dr Jin Yao</u> ¹ . Dr John Kavanagh ¹ , Professor Brian Hayden ¹² | Sofia Aslanidou', Panagiota Gkertsiou', Eleni Pavlidou², Theodora Choli-Papadopoulou³, Stergios Logothetidis' | Emilija Ilic ¹² , Dr. Roland Hauert ¹ , Dr. Patrik Schmutz ¹ , Dr. Thomas Suter ¹ , Prof. Stefano Mischler ² |
| | ¹ University Of Southampton, Southampton, United Kingdom, ² ILIKA TECHNOLOGIES, SOUTHAMPTON, UNITED KINGDOM | ¹ Lab for "Thin Films- Nanobiomaterials, Nanosystems & Nanometrology", Department of Physics, Aristotle University, Thessaloniki, Greece, ² Depart- ment of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Biochemistry, Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Greece | ¹ Empa, Duebendorf, Switzerland, ² EPFL, Lausanne, Switzerland |
| | | DEVELOPMENT OF FISH SCALE REINFORCED PHBV NANOFIBROUS SPONGE-LIKE SCAFFOLD FOR BONE TISSUE REGENERATION | NUMERICAL STUDY OF THE MECHANICAL STABILITY OF CUSTOM-MADE IMPLANTS MADE BY SLM MANUFACTURING |
| 16.20 | | Oylum Colpankan Gunes ¹ , Aylin Kara ² , Aylin Ziylan Albayrak ¹ , Hasan Havitcioglu ^{2,3} , Gokcen Bilice ⁴ , Guven Erbil+ | Paul Didier ¹ , Boris Piotrowki ¹ , Pascal Laheurte ¹ , Marie Fischer ¹ |
| 10.20 | | 'Department of Metallurgical and Materials Engineering. Dokuz Eylul University. Izmir, Turkey, 'Department of Biomechanics, Dokuz Eylul University, Izmir, Turkey, 'Department of Orthopedics and Traumatology, Dokuz Eylul University, Izmir, Turkey, 'Department of Histology and Embryology, Faculty of Medicine, Dokuz Eylul University, Izmir, Turkey | 'Laboratoire d'Etude des Microstructures et de Mécanique des Matériaux LEM3 UMR CNRS 7239, Arts et Métiers ParisTech Campus de Metz, Université de Lorraine, Metz, France |
| | | | MICROSTRUCTURAL AND MECHANICAL CHARACTERISATION OF DENTAL MATERIALS |
| | | | Teresa Palacios ¹ , C Abad ² , G Pradíes ² , JY Pastor ¹ |
| 16.40 | | | Departamento de Ciencia de Materiales-CIME, Universidad Politécnica de Madrid, Madrid, Spain, Departamento de Estomatología I, Universidad Complutense de Madrid, Madrid, Spain |
| | | | |

| <u> EUROM</u> | AI 201/ | | FINAL PROGRAM/MONDAY/PM1 | |
|---------------|---|--|---|--|
| Symposium | Н1 | H2 | Н3 | |
| Room | I -16/M1 | Conference Room 2/M1 | Conference Room 3 | |
| Session Title | Critical Magnetic Materials I | Valorization of Secondary Resources | Implementation into practice and dicusssion | |
| Chairperson | Tom Lograsso | Guo Muxing, Ioanna Giannopoulou | Roland Gauss | |
| | KEYNOTE/INVITED MATERIAL CRITICALITY AND CARBON ABATEMENT, 2017-2030 | REUSE OF STEEL FLY ASH FOR CEMENT-BASED ELECTROMAGNETIC INTERFERENCE SHIELDING MATERIALS PRODUCTION | PROCESS MODEL BASED LCA USING HSC CHEMISTRY SOFTWARE. DEMONSTRATION WITH SILVER REFINING CASE AND POWER PLANT OPTIMIZATION USING EXERGY | |
| 15.00 | Professor Roderick Eggert ¹ | <u>Dr. Yong Fan',</u> Mr. Ling Zhang', Dr. Vladimir Volskiy², Prof. Guy Vandenbosch², Prof. Bart Blanpain¹, Dr. Muxing Guo¹ | Antti Roine ¹ , <u>Markus A. Reuter²</u> | |
| | | ¹ Department of Materials Engineering, KU Leuven, Leuven, Belgium, ² Department of Electrical Engineering, KU Leuven, Leuven, Belgium | Outotec Oyj, Espoo, Finland ² Helmholtz-Institute Freiberg for Resource Technology, Freiberg, Germany | |
| | | HIGH STRENGTH CONCRETE USING BASALT AGGREGATE In Construction and concrete MIX Improvement | LIFE CYCLE ASSESSMENT OF GOLD PRODUCTION: COMPARISON OF PRIMARY AND SECONDARY SUPPLY ROUTES | |
| 15.20 | ¹ Colorado School of Mines, Golden, United States | Assistant Professor Mohmd Sarireh ¹ | Dr. David Turner ¹ , Mr. Arthur Haarman ¹ , Dr. Roland Hischier ¹ | |
| | | ¹Tafila Technical University. Tafila, Jordan | ¹Empa, St Gallen, Switzerland | |
| | NANOCOMPOSITE SOFT MAGNETIC MATERIALS FOR ENERGY AND POWER CONVERSION APPLICATIONS | DESIGN OF IRON-RICH INORGANIC POLYMER PASTES: Influence of the Chemistry of the Precursor Slag and activating solution | THE DEVELOPMENT OF A MATERIAL CIRCULARITY INDICATOR SOFTWARE TOOL | |
| | Paul Ohodnicki ¹ | | Dr Luca Petruccelli ¹ , <u>Dr Donna Dykeman</u> ¹ , Dr Claes Fredriksson ¹ , | |
| 15.40 | | Arne Peys', Jorn Van de Sande', Vincent Hallet', Tobias Hertel', Silviana Onisei', Hubert Rahier², Bart Blanpain', Yiannis Pontikes' | Dr Conny Bakker ² , Miss Wendela Huisman ³ , Dr James Goddin ¹ | |
| | 'National Energy Technology Laboratory / DOE, Pittsburgh, United States | ¹ KU Leuven Department of Materials Engineering, Leuven, Belgium, ² Department of Materials and Chemistry, Vrije Universiteit Brussel, Brussels, Belgium | 'Granta Design, Cambridge, United Kingdom, ² TU Delft. Delft. The Netherlands, ³ Schmidt MacArthur Fellowship, Isle of Wight, United Kingdom | |
| | HIGHLIGHT TAILORING OF MAGNETIC SOFTNESS AND GMI EFFECT IN FE-RICH THIM MAGNETIC WIRES | CONTROLLING THE RHEOLOGY OF INORGANIC POLYMERS PASTES DERIVED FROM NON-FERROUS SLAGS | SHOULD WE RECYCLE RARE EARTH ELEMENTS FROM FLUORESCENT LAMPS? - A CASE STUDY | |
| 16.00 | Dr. Prof. Arcady Zhukov ¹ , Dr. Mihail Ipatov ² , Dr. Ahmed Talaat ² , Dr. Juan Maria Blanco ³ , Dr. Margarita Churyukanova ⁴ , Dr. Valentina Zhukova ² | <u>Sir Glenn Beersaerts</u> ¹, Mrs Lubica Kriskova¹, Sir Yiannis Pontinkes¹ | Dieuwertje Schrijvers ¹² , Guido Sonnemann ¹² | |
| | ¹ Dept. Phys. Mater., Univ. Basque Country and IKERBASQUE, Foundation for Science, San Sebastian, Spain, ² Dept. Phys. Mater. and Dept. Applied Phys., Univ. Basque Country, San Sebastian, Spain, ³ Dept. Applied Phys., Univ. Basque Country, San Sebastian, Spain, ³ National University of Science and Technology «MISIS», Moscow, Russia | ¹ KU Leuven, Leuven, Belgium | 'University Of Bordeaux - ISM, France, 2CNRS - ISM, France | |
| | HIGHLIGHT CO-LEAN ALNICO: PATH TO A SUSTAINABLE HIGH TEMPERATURE PERMANENT MAGNET | SINTERING FLUE GAS DENITRIFICATION WITH DIFFERENT CARBON MATERIALS MODIFIED BY STEAM AND ACID | METAL STOCK ACCUMULATION AND SOCIO-ECONOMIC DRIVERS IN CHINESE MEGACITIES: A BOTTOM-UP ANALYSIS | |
| 16.20 | Matthew Kramer¹, A. Palasyuk¹, Lin Zhou¹, A. Kassen¹, Lianfa Hu¹, Wei Tang¹, I. E. Anderson¹ | Shan Ren¹ | Dr. Gang Liu¹ | |
| | ¹Ames Laboratory/ Iowa State University. Ames, United States | [†] Chongqing University, Chongqing, China | 'University Of Southern Denmark, Odense, Denmark | |
| | HIGHLIGHT HIGH-THROUGHPUT APPROACH TO DEVELOPING MAGNET ALLOYS WITH DECREASED CRITICAL MATERIALS | | DISCUSSION: DOES INDUSTRY NEED LIFE CYCLE CONCEPTS? | |
| 16.40 | Ryan Ott!, Ikenna Nlebedim ¹ , Emrah Simsek ¹ , Matthew Kramer ¹ | | | |
| | ¹Ames Laboratory (USD0E), Ames, United States | | | |



| Symposium | A3 | A5 | A7 | A8 |
|---------------|--|--|--|---|
| Room | I-1 1/M 1 | MOYSA Hall/M2 | F 319/M1 | I-08/M1 |
| Session Title | Nanostructured polymers III | Bio-nano interface II | Alloys at the nanoscale | Functional materials |
| Chairperson | Alice MIJA | Zhenxin Wang | Paloma Fernández | Daniele Preziosi |
| | DIFFERENT ROUTES TO GET STRUCTURATION AT NANOSCALE WITHIN POLYMER MATERIALS | HIGHLIGHT GOLD NANOPARTICLES AS CHARGE SHUTTLES IN MEMBRANES | KEYNOTE/INVITED INVESTIGATION VIA SYNCHROTRON RADIATION X-RAYS OF ORDERED PHASE CHANGE MATERIALS | TUNING THE ELECTROCALORIC EFFECT BY STRAIN, FIELD DIRECTION, AND DEFECTS: INVERSE ECE AND THE IMPACT OF HYSTERESIS |
| 17.30 | Professor Jannick Duchet-rumeau ¹ , Dr Sébastien Livi ¹ , Dr Sebastien Pruvost ¹ , Pr Jean-François Gérard ¹ | Prof. Mathias Brust 1 | Raffaella Calarco ¹ | Anna Gr <u>ünebohm</u> ¹, Madhura Marathe², Claude Ederer² |
| | ¹Imp-university Of Lyon, Villeurbanne, France | 'University Of Liverpool, Liverpool, United Kingdom | | ¹ University of Duisburg-Essen and CENIDE, Duisburg, Germany, ² Materials Theory, ETH Zürich, Switzerland, Zürich, Switzerland |
| | EFFECT OF ZnO GROWTH ON THE MORPHOLOGICAL, MECHANICAL, BARRIER AND ANTIMICROBIAL PROPERTIES OF CHITOSAN BASED FILMS FOR FOOD PACKAGING APPLICATIONS | HIGHLIGHT EMPLOYING PHOSPHOPEPTIDES AS FUNCTIONAL AGENTS TO PRODUCE RENAL CLEARABLE NANO- DOTS FOR BIOIMAGING | | INTERACTION OF LIGHT WITH HEMATITE HIERARCHICAL STRUCTURES: EXPERIMENTS AND SIMULATIONS |
| 17.50 | DiptIng. Olga Boura-Theodoridou ¹ , PhD Aris Giannakas ² , Professor Petros Katapodis ³ , Professor Haralambos Stamatis ³ , Professor Athanasios Lada- vos ² , Professor Nektaria-marianthi Barkoula ¹ | Professor Zhenxin Wang ¹ | ¹ Paul-Drude-Institut für Festkörperelektronik, Berlin, Germany | <u>Dr Monica Distaso</u> ¹ |
| | 'Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece, 'Department of Business Administration of Food and Agricultural Enterprises, Laboratory of Food Technology, University of Patras, Agrinio, Greece, 'Department of Biological Applications & Technology, University of Ioannina, Ioannina, Greece | ¹ Changchun Institute Of Applied Chemistry, Chinese Academy Of Sciences, Changchun, China | | 'Fau Erlangen Nuremberg, Erlangen, Germany |
| | PMMA-BASED POROUS ORGANIC-INORGANIC COMPOS- ITES BY IN SITU SYNTHESIS OF Zno Nanoparticles | HIGHLIGHT CANCER DIAGNOSIS AND PROGNOSIS WITH SERS AND/OR FLUORESCENCE | ALLOYING THE GROUP III AND GROUP II-IV NI- TRIDES: THE AI2xMg(1-x)Si(1-X)N2 ALLOY SYSTEM | FeAI FOR SUSTAINABLE MAGNETOSTRICTIVE AND MAGNETOELECTRIC APPLICATIONS |
| 18.10 | <u>Dr Davide Morselli</u> ¹, Dr Despina Fragouli¹, Dr Athanassia Athanassiou¹ | Prof Ramon Alvarez-Puebla | Mr James B Quirk ¹ , Dr Mikael Råsander ¹ , Miss Shiny Mathew ² , Mr Jonathan Rackham ¹ , Dr Robert Palgrave ² , Dr Michelle A Moram ¹ | Wilhelm Huettenes ¹ , Matteo Cialone ²³ , Prof Paola Tiberto ² , Prof Lindsay Greer ¹ , Prof Zoe Barber ¹ |
| | 'Smart Materials Group, Istituto Italiano Di Tecnologia, Genova, Italy | ¹Icrea-URV, Tarragona, Spain | [†] Department of Materials, Imperial College London, London, United Kingdom, [‡] Department of Chemistry, University College London, London, United Kingdom | University Of Cambridge, Cambridge, United Kingdom, *Istituto Nazionale di Ricerca Metrologica Torino (INRIM), Turin, Italy, *Università degli studi di Torino, Turin, Italy |
| | ELECTROACTIVITY AND AGEING OF IMMERSED CONDUCTING HYDROGEL | INTERACTIONS OF FUNCTIONALIZED GOLD NANOPARTICLES WITH SKIN | PHASE STABILITY AND ATOMIC MOBILITY OF NANO-CONFINED AgCu ALLOYS IN AgCu/ALN NANO-MULTILAYERS UPON HEATING | FIRST PRINCIPLES STUDY OF ORBITAL ORDER IN MN DOPED FeV204 |
| 18.30 | Dr. Caroline Duc ¹ , Dr. Alexis Vlandas ¹ , Prof. George G. Malliaras ² , Dr. Vincent Senez ¹ | Dr Rute Fernandes¹, Dr Neil Smyth², Professor Otto Muskens¹, <u>Associate Professor Antonios Kanaras</u> ¹ | Dr Vicente Araullo-Peters ¹ , Dr Mirco Chiodi ¹ , Dr Claudia Cancellieri ¹ , Dr Jolanta Janczak-Rusch ¹ , Dr Lars Jeurgens ¹ | Dr. Tulika Maitra*, Dibyendu Dey ¹ , Professor Arghya Taraphder ¹ "Indian Institute Of Technology, Kharagpur, Kharagpur, |
| | 'IEMN, CNRS, Univ. Lille, ISEN, Lille, France, 'Ecole Nationale Supérieure des Mines CMP-EMSE, MOC, Gardanne, France | 'Institute for Life Sciences, Physics and Astronomy, University of Southampton, Southampton, UK, 'General hospital, University of Southampton, Southampton, UK | ¹EMPA, Dubendorf, Switzerland | India: India Institute Of Technology, Roorkee, Roorkee, India |
| | HOMOCONJUGATION IN POLY(PHENYLENE METHYLENEIS: UNEXPECTED FLUORESCENCE IN NON-n-CONJUGATED POLYMERS | QUANTUM DOT-BASED BIOCONJUGATES FOR IMAGING CELLULAR MEMBRANE POTENTIAL | FORMATION AND TUNABLE PROPERTIES OF DEAL- LOYED NANOPOROUS METALS STUDIED BY In-Situ RESISTOMETRY | |
| | Andreas Braendle ¹ , Aleksandr Perevedentsev ¹ , Nathan J. Cheetham ² , Paul N. Stavrinou ³ , Jörg A. Schachner ⁴ , Nadia C. Mösch-Zanetti ⁴ , Markus Niederberger ¹ , Walter R. Caseri ¹ | James Delehanty ¹ | <u>Eva-Maria Steyskat</u> ¹, Matthias Graf², Roland Würschum¹ | |
| 18.50 | ¹ Department of Materials. ETH Zürich, Zürich 8093, Switzerland, ¹ Department of Physics and Centre for Plastic Electronics. Imperial College London, London SW7 2AZ, United Kingdom, ¹ Department of Engineering Science, University of Oxford Oxford OX1 3PJ. United | ¹ Us Naval Research Laboratory, United States | ¹ Institute Of Materials Physics, TU Graz, Graz, Austria, ² Materials Physics and Technology, TU Hamburg-Har- burg, Hamburg, Germany | |
| | Kingdom, 'Institute of Chemistry, University of Graz, Graz 80 10, Austria | | HIGHLIGHT | |
| | | | THERMODYNAMIC STABILITY AND ELASTIC PROPERTIES OF PHASES IN Au-Ni MICRO-PARTICLES A. Herz¹, Dr. Martin Friak²³, D. Rossberg¹, | |
| 19.10 | | | M. Hentschel ¹ , F. Theska ¹ , D. Wang ¹ , D. Holec ⁴ , M. Sob ³²⁵ , O. Schneeweiss ² , Prof. P. Schaaf ¹ | |
| | | | Engineering, Institute of Materials Science and Engineering and Institute of Mirro- and Monotechnologies Macrokon, Till Immenu, Illiamenu, Illi | |
| 19.30 | | | | |
| | | | | |



| Symposium | B2 | В3 | B5 | B10 |
|---------------|---|--|---|--|
| Room | Aimilios Riadis Hall/M2 | CR I Hall/M2 | Conference Room 1/M1 | Maurice Saltiel Hall II/M2 |
| Session Title | Modeling and Simulation in Light Metals | Steels & Refractories | Oxygen ion conductors and electrolytes | Fatigue and Fracture III - Welded Joints and Fracture Mechanics |
| Chairperson | Alan Luo | S. Milenkovic | Maria Stefanidou | Alexandros Savaidis |
| | HIGHLIGHT ALLOY DEVELOPMENT AND ADVANCED PROCESSING FOR LIGHT METALS: THE ROLE OF INTEGRATED COMPUTATIONAL MATERIALS ENGINEERING (ICME) | AB INITIO-BASED DESIGN OF A HIGH-TEMPERATURE Cr-Ni-Base Alloy | STUDY ON THE PREPARATION OF INERT ANODE MATERIALS AND ITS CORROSION PROPERTY IN MOLTEN SALT | HIGHLIGHT FATIGUE ASSESSMENT OF WELDED STRUCTURES BASED ON LOCAL STRAINS Dr. Michail Malikoutsakis ¹ , Dr. Georgios Savaidis ¹ |
| 17.30 | Prof. Alan Luo ¹ Ohio State University, Columbus, United States | Dr Vsevolod Razumovskiy', Dr Viktor Butrim², Alexander Beresnev², Anna Trushnikova², Sofia Varlamova², Prof. Igor Razumovskii² | Mr Yihan Liu¹ | Aristotle University of Thessaloniki, Thessaloniki, Greece |
| | | ¹ Materials Center Leoben Forschung Gmbh, Leoben, Austria, ² Joint-Stock Company "Kompozit", Korolev, Russia | ¹Northeastern University, China, Shenyang, China | . Thessaloniki, Greece |
| | HIGHLIGHT INTEGRATED COMPUTATIONAL MATERIALS ENGINEERING FOR LIGHT METAL ALLOYS – STATUS AND PERSPECTIVES | GRAIN BOUNDARY CHEMISTRY ENGINEERING ON THE EXAMPLE OF Mo-Hf ALLOYS | CERAMIC ELECTRODES FOR ADVANCED OXIDATION OF EMERGENT CONTAMINANTS | FATIGUE STRENGTH OF WELDED ULTRA HIGH- STRENGTH STEEL JOINTS INCORPORATING LOW TRANSFORMATION TEMPERATURE (LTT) FILLER MATERIAL ADD HIGH FREQUENCY MECHANICAL IMPACT (HFMI) POST-TREATMENT |
| 17.50 | Dr. rer. nat. Georg J. Schmitz 'Access E.v., Aachen, Germany | Daniel Scheiber ¹ , Katharina Leitner ² , Reinhard Pippan ³ , Peter Puschnig ⁴ , <u>Lorenz Romaner¹</u> | Dr. Sergio Mestre ¹ , Dña. María José Sánchez-Rivera ¹ , Dra. Ana Gozalbo ¹ , Dr. Valentín Pérez-Herranz ² | Dr. Martin Leitner¹, DipL-Ing. Markus Ottersböck¹, Dr. Michael Stoschka¹, Dr. Wilhelm Maurer² |
| | | Materials Center Leoben Forschung GmbH, Austria, "Department of Physical Metallurgy and Materials Test- ing, Montanuniversität Leoben, Austria, "Erich Schmid Institut of Materials Science, Austrian Academy of Sciences, Leoben, Austria, "University of Graz, Institute of Physics, Graz, Austria | 'Universitat Jaume I, Castellón, Spain, 'Universitat Politècnica de València, Valencia, Spain | ¹ Montanuniversität Leoben, Chair of Mechanical Engineering, Leoben, Austria, ² voestalpine Stahl GmbH, Linz, Austria |
| | HIGHLIGHT EXACT THEORY OF VACANCY-MEDIATED SOLUTE TRANSPORT IN MAGNESIUM Associate Professor Dallas Trinkle 1. | MICROSTRUCTURAL EVOLUTION OF BORON CONTAINING 9%Cr steel | THE EFFECT OF THE PRECURSOR POWDER SIZE ON THE ELECTRICAL AND SENSOR CHARACTERISTICS OF FULLY STABILIZED ZIRCONIA-BASED SOLID ELECTROLYTES | CRACK GROWTH BEHAVIOUR OF ALUMINIUM WROUGHT ALLOYS IN THE VERY HIGH CYCLE FATIGUE REGIME |
| 18.10 | Ravi Agarwal ¹ | Evgeniy Tkachev'. Andrey Belyakov'. Rustam Kaibyshev ¹ | Dr Olga Kurapova 1.2, Dr Alexander Shorokhov 1, Prof Vladimir Konakov 1.2 | <u>DiplWirtIng. Fatih Bülbül</u> l, M.Sc. Marcel Wicke ² , DiplIng. Tina Kirsten ² , Prof. Angelika Brückner-Foit ² , Prof. Martina Zimmermann ² , Prof. Hans-Jürgen Christ ¹ |
| | ¹Univ. Illinois, Urbana-champaign, Urbana, United States | [†] Belgorod State University, Belgorod, Russian Federation | 'Ist Petersburg State University, Saint Petersburg, Russian Federation, 'Peter the Great St. Petersburg Polytechnic University, Saint Petersburg, Russian Federation | ¹ Universität Siegen, Siegen, Germany, ² Universität Kassel, Kassel, Germany, ² Technische Universität Dresden, Dresden, Germany |
| | GINZBURG-LANDAU THEORY OF LPSO FORMATION | UNDERSTANDING THE INFLUENCE OF COMPOSITION GRADIENTS ON THE PRECIPITATION OF M., C, IN CENTRIFUGALLY CAST STEEL FURNACE TÜBES | TUNING THE ELECTRICAL AND DIELECTRIC PROPERTIES OF Na0.5810.5T103 PEROVSKITE BY CHEMICAL DOPING | FRACTURE MECHANICS APPLICATION TO FATIGUE LIFE DETERMINATION |
| 18.30 | Professor Alexander Umantsev ¹ 1 Fayetteville State University, Fayetteville, United States | Dr. Manuel Roussel ¹ , <u>Dr. Xavier Sauvage</u> ¹ , Mélina Vermont ¹ , Charly Mougel ¹ , Dr. Annie Hauet ¹ , Prof. Michel Perez ² , Dr. Thibaut Chaise ² , Dr. Antonin Steckmeyer ³ , Dr. Mathieu Couvrat ³ | <u>Dr Fan Yang</u> ¹, Prof Derek Sinclair ¹ | Prof. Dr. Uwe Zerbst ¹ , Prof. Dr. Michael Vormwald ² ¹ BAM, Berlin, Germany, ² Technische Universität, Darmstadt, Germany |
| | | ¹GPM - Université De Rouen, Rouen, France, ²MATEIS | ¹ University Of Sheffield, Sheffield, United Kingdom | |
| | HIGHLIGHT UTILITY OF A DIFFUSION MOBILITY DATABASE FOR LIGHT METALS | EFFECT OF THERMAL CYCLING ON AGING OF AN AUSTENITIC STAINLESS STEEL | INFLUENCE OF Eu3+ AND Tb+3 DOPING CONTENT ON SCINTILLATION PROPERTIES OF Gd203 PRODUCED BY PECHINI Sol – GEL METHOD | FATIGUE CRACK GROWTH IN A SINGLE CRYSTAL NICKEL BASE SUPERALLOY |
| 18.50 | Professor and Chair Michele Manuel | Dr Coralie Parrens ¹² , Dr Jacques Lacaze ¹ , Dr Benoit Malard ¹ , Mr Jean-Luc Dupain ² , Pr Dominique Poquillon ¹ | Tolga Taylı ¹ , Behiye Yüksel ² , Berk Alkan ³ , Canhan Şen ⁴ , A. Umut Söyler5, Prof. Dr. Gökhan Orhan ¹ | MSc Frans Palmert ^{1,2} , Prof Johan Moverare ¹ , PhD David Gustafsson ² |
| | ¹ University Of Florida, Gainesville, United States | Cirimat, Univ Toulouse, Cirimat, INP-ENSIACET 4 Allée Emile Monso - BP443 31030 Toulouse Cedex 4, France, ¹ Safran Landing Systems, 9 Rue Guynemer, 64400 Bidos, France | 'Istanbul University, 'Istanbul Aydın University, 'Istanbul Technical University, 'Sabanci University, 5Teta Cam Teknolojileri San. Tic. Ltd. Şti | Linköping University, Linköping, Sweden, ² Siemens Industrial Turbomachinery AB, Finspång, Sweden |
| | | MODELLING HEALING PROCESSES IN CREEP STEELS | | CORROSION FATIGUE BEHAVIOUR OF HFMI-TREATED WELDED JOINTS OF STEEL \$355: CORRELATION OF TESTING METHODS |
| 19.10 | | Casper Versteylen [†] , Dr Marcel Sluiter [†] , Dr Niels van Dijk [†] | | DiplIng. Stefanos Gkatzogiannis ¹ , M. Eng. Joscha Weinert ² , Prof. DrIng. Imke Engelhardt ² , Prof. DrIng. Peter Knoedel ¹ , Prof. DrIng. Thomas Ummenhofer ¹ |
| | | 'Technische Universiteit Delft, Delft, Netherlands | | 'Kit Steel & Lightweight Structures Research Center For Steel, Timber & Masonry, Karsrluhe, Germany, ² Munich University of Applied Sciences, Munich, Germany |
| | <u> </u> | | | |
| 19.30 | | | | |
| | | | | |



| Symposium | B11 | C1 | C2 | C6 |
|---------------|---|--|--|--|
| Room | Maurice Saltiel Hall III/M2 | Friends of Music Hall/M1 | Conference Room 4/M1 | I-15/M1 |
| Session Title | Shape-Memory-Alloys | Coatings and thin films 3/6 - Coatings structure II | Laser interference lithography/direct write | Welding 2 |
| Chairperson | R. Everett | Z. Grzesik, A. Cavaleiro | Ioanna Zergioti | Christof Sommitsch |
| | ON THE SUPERELASTIC BEHAVIOR OF THE NITI SHAPE MEMORY ALLOY AT VARIOUS HEAT TREATMENT CONDITIONS | HIGHLIGHT ROLE OF POINT DEFECTS FOR PREDICTING PHASE STABILITY: A CASE STUDY OF Ta-AL-N AND Nb-AL-N SYSTEMS | FABRICATION OF PILLAR-LIKE MICROSTRUCTURES ON STAINLESS STEEL BY PICOSECOND DIRECT LASER INTERFERENCE PATTERNING | EXPERIMENTAL INVESTIGATION AND STATISTICAL ANALYSIS OF KEY PARAMETERS IN SELF-PIERCING RIVETING OF AL BLANKS |
| 17.30 | Boutheina BEN FRAJ ¹ , Amen Gahbiche ² , | <u>Dr. David Holec</u> ¹ , Ferdinand Pacher ² , Nikola Koutná ²³ , | M.Sc. Alfredo Aguilar ¹ , Prof. DrIng. Andrés Fabian Lasagni ^{1,2} | Bsc. Florian Hönsch ¹ , DiplIng. Dr. techn. Robert Vollmer ¹ , UnivProf. DiplIng. Dr. techn. Christof Sommitsch ¹ |
| | "Mechanical Laboratory Of Sousse, National Engineer- ing School Of Sousse, University of Sousse, Sousse, Tunisia, "Laborators de Génie Mécanique LGM, Ecole Nationale d'Ingénieurs de Monastir ENIM, Université de Monastir, Monastir, Tunisia | Dr. Christian Koller ² , Prof. Paul Mayrhofer ² ¹ Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Leoben, Austria, ² Institute of Materials Science and Technology, TU Wien, Vienna, Austria, ³ Faculty of Science, Masaryk University, Brno, Czech Republic | 'Fraunhofer Institute for Material and Beam Technol-ogy, Winterbergstr. 28. Dresden, Germany, ₹Technical University Dresden, George-Bähr-Str. 3c, Dresden, Germany | Tu Graz, Graz, Austria |
| | MICROSTRUCTURAL INVESTIGATION AND THERMODYNAMIC MODELLING OF Fe-Mn-Al-Ni SHAPE MEMORY ALLOYS | SYNTHESIS OF (Nb,Ti)N ULTRATHIN FILMS BY CHEMICAL VAPOR DEPOSITION | LASER MANUFACTURED PAPER DEVICES FOR MULTIPLEXED DETECTION OF BACTERIA AND THEIR RESISTANCE TO ANTIBIOTICS | HEAT ASSISTED SELF-PIERCE RIVETING FOR HIGH STRENGTH LIGHT METAL ALLOYS |
| 17.50 | Alexander Walnsch ¹ , Mario J. Kriegel ¹ , Malte Voll- mer ² , Olga Fabrichnaya ¹ , Thomas Niendorf ² , Andreas Leineweber ¹ | <u>Dr Elisabeth Blanquet</u> ¹, Dr Nikolaos Tsavdaris¹. Manoel Jacquemin¹, Gilles Renou¹, Dr Eirini Sari- giannidou², Stéphane Coindeau¹, Dr Michel Pons¹, Dr Frédéric Mercier¹ | Dr Ioannis Katis ¹ , Dr Peijun He ¹ , Dr Susanna Sherwin ² , Prof Charles Keevil ² , Prof Robert Eason ¹ , Dr Collin Sones ¹ | Dipling. (fh), Msc Georg Kirov ¹ |
| | ¹ TU Bergakademie Freiberg, Germany, ² Universität Kassel, Germany | ¹ Univ. Grenoble Alpes. CNRS, Grenoble INP, SIMaP, Grenoble, France, ² Univ. Grenoble Alpes, CNRS, Grenoble INP [*] , LMGP, Grenoble, France | ¹Optoelectronics Research Centre, University of South- ampton, Southampton, United Kingdom, ²Environmen- tal Healthcare Unit, Biological Sciences, University of Southampton, Southampton, United Kingdom | ¹ Ait Austrian Institute Of Technology, LKR Leichtmetall- kompetenzzentrum Ranshofen GmbH, Ranshofen, Austria |
| | NITINOL FOR VASCULAR STENT APPLICATIONS: AN EXPERIMENTAL STUDY ON FATIGUE PROPERTIES AND MICROSTRUCTURE | EFFECT OF BIAS VOLTAGE INDUCED MICROSTRUCTURE ON THE MECHANICAL PROPERTIES OF NEW NANO- STRUCTURED TI-Nb-Zr COATINGS FOR IMPLANT MATERIALS | LASER FABRICATION OF HIGH-PERFORMANCE FLEXIBLE PLASMONIC WAVEGUIDES | INVESTIGATION INTO MECHANICAL BEHAVIOR OF FRICTION STIR WELDED DUAL PHASE 600 STEEL PLATES |
| | Dr Anna Zervaki ¹ , Dr Helen Kamoutsi ¹ , Prof. George Fourlaris ² , Dr Panagiotis Tsakiridis ² , <u>Prof. Antonios</u> <u>Giannakopoulos²</u> | Doctor Emilio Frutos Torres 1, Doctor Miroslav Karlik², Doctor José Antonio Jiménez², Doctor Tomas Polcar 1,4 | Dr. Filimon Zacharatos ¹ , Mrs Parva Chhantyal ² , Mr. Ioannis Theodorakos ¹ , Prof. Carsten Reinhardt ² , Prof. Dr. rer. nat. Boris N. Chichkov ² , Assoc. Prof. Ioanna Zergioti ¹ | Semih Aktarer¹, Prof.Dr. Tevfik Kuçukomeroglu², Asst. Prof. Guven Ipekoglu³, Prof.Dr. Gurel Cam³ |
| 18.10 | Laboratory of Materials, Dept. of Mechanical Engineer- ing, Pedion Areos, 38334 Volos, Greece, Volos, Greece, 'Physical Metallurgy Laboratory, School of Mining and Metallurgical Engineering, NTUA, Heroon Polytehneiou 9, 15780, Zografou, Athens, Athens, Creece, 'Laboratory of Strength of Materials and Micromechanics, Dept. Of Civil Engineering, Pedion Areos, 38334 Volos, Greece, Volos, Greece | 34 Volos. Greece, Volos. Greece, doboratory, School of Mining and ing. NTUA, Heroon Polytehneiou lens, Athens. Greece, 'Laboratory s and Micromechanics. Dept. 'I Prague, Prague, Czech Republic,' Centro Nacional | 'National Technical University Of Athens (NTUA) - School of Applied Mathematics and Physical Sciences - Department of Physics, Athens, Greece: "Nanotech- nology Department, Laser Zentrum Hannover e.V., Hannover, Germany | Recep Tayyip Erdogan University, Rize, Turkey, 'Karadeniz Technical University, Trabzon, Turkey, 'Iskenderun Technical University, Hatay, Turkey |
| | PHASE TRANSFORMATIONS IN SUPERELASTIC NITI DURING STRAIN PATH CHANGE | AMORPHOUS ALUMINUM OXIDES: CVD PROCESSING, LOCAL COORDINATION AND MULTIFUNCTIONALITY | DIODE-LASER-ASSISTED FABRICATION OF NANOCOMPOSITES BY SOLID - AND LIQUID-STATE SPINODAL DECOMPOSITION | MECHANICAL CHARACTERIZATION OF TITANIUM LINEAR FRICTION WELDS |
| 18.30 | Dr. Efthymios Polatidis ¹ , Mr. Wei-Neng Hsu ^{1,2} , Dr. Miroslav Smid ¹ , Dr. Steven Van Petegem ¹ , Prof. Helena Van Swygenhoven ^{1,2} | Dr. Constantin Vahlas ¹ , Dr. Vincent Sarou-Kanian ² . Pr. Brigitte Caussat ³ , Mrs. Diane Samelor ¹ , Dr. Loic Baggetto ¹ , Dr. Pierre Florian ² | <u>Dr. Karl-Heinz Heinig</u> ¹ , Dr. Mykola Vinnichenko ² , Eric Schumann ¹ | Mr. Juan-Manuel Garcia 1, PhD. Thilo Morgeneyer 1 |
| | 'Swiss light source, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland, 'Neutrons and X-rays for Mechanics of Materials, IMX, Ecole Polytechnique Fed- erale de Lausanne, CH-10 12 Lausanne, Switzerland | ¹ CIRIMAT-CNRS, Toulouse, France, ² CEMHTI-CNRS, Orleans, France, ² LGC-INPT, Toulouse, France | 'Helmholtz-Center Dresden-Rossendorf HZDR, Dresden, Germany. 'Fraunhofer Institut für keramische Technologien und Systeme, Dresden, Germany | 'MINES ParisTech, PSL - Research University, Centre des matériaux CNRS UMR 7633, BP 87 9 1003 Evry, France |
| | ISOELECTRONIC DOPING EFFECTS ON THE MARTENSITIC TRANSITION IN NIMES BASED SHAPE MEMORY ALLOYS | | FABRICATION OF ADVANCED SECURITY ELEMENTS USING DIRECT LASER INTERFERENCE PATTERNING | IMPROVING THE BOND STRENGTH OF STEEL AND ALUMINUM JOINTS - TOWARDS NEW ASPECTS OF THE BONDING MECHANISM IN COLD WELDING |
| | Dr. Nitya Ramanan ¹ , Mr. Girish Hemraj ² , Dr. Wojciech Olszewski ¹ , 5, Dr. Carlo Marini ¹ , Dr. Manvendra Kumar ² , Dr. Parasmani Rajput ⁴ | M.Sc. Richard Grothe ¹ , M.Sc. Martin Wiesing ¹ , Dr. Ignacio Giner ¹ , B.Sc. Dennis Meinderink ¹ , Prof. DrIng. Guido Grundmeier ¹ | DiplIng. Florian Rößler ¹ , Dr. Tim Kunze ² , Prof. DrIng. Andrés Fabián Lasagni ^{1,2} | Abdulrahman Altin ¹ . Christiane Gerlitzky ² . Nicolas Peter ³ . Dr. Christian Liebscher ³ . Prof. Dr. Groche Peter ² . Prof. Dr. Andreas Erbe ¹ 4 |
| 18.50 | 'Alba Synchrotron, Barcelona, Spain, 'School of studies in Electronics and Photonics, Pt. Ravishankar Shukla University, 49200 1, India, Raipur, India, 'Nanotech-nology Application Centre, University of Allahabad, India, 'Alomic & Molecular Physics Division, Bhabha Alomic Research Centre, Mumbai, India, 5Faculty of Physics, University of Bialystok, 'L K. Ciolkowskiega street, Poland | ¹ Universität Paderborn, Paderborn, Germany | . ¹ TU Dresden, Dresden, Germany, ² Fraunhofer IWS, Dresden, Germany | "Max-Planck-Institut für Eisenforschung GmbH. Depart- ment of Interface Chemistry and Surface Engineering, Düsseldarf, Germany, "Technische Universität Darm- stadt. Institute for Production Engineering and Forming Machines, Darmstadt. Germany, "Max-Planck-Institut für Eisenforschung GmbH. Department of Structure and Mi- cro-/Nanomechanics of Materials, Düsseldorf, Germany, "Department of Materials Science and Engineering," NTIVU, Norwegian University of Science and Technology, Trondheim, Norway |
| | EFFECT OF LOW TEMPERATURE AGING AND DSC CYCLING ON THE MICRODOMAINS AND MICRO- STRUCTURES OF Ni50.6Ti49.4 | AB INITIO STUDY OF THE ATOMIC LEVEL STRUCTURE OF TIO2-TIN INTERFACES FOR ANTIBIOFOULING APPLICATIONS | HIGH-REPETITION RATE FEMTOSECOND LASER PROCESSING OF ACRYLIC INTRA-OCULAR LENSES | HOT ROLL BONDING OF ALUMINUM TO TWIN ROLL CAST (TRC) MAGNESIUM AND ITS SUBSEQUENT DEFORMATION BEHAVIOR |
| 19.10 | Saeid Pourbabak ¹ , Dr. Xiebin Wang ² , Prof. Dirk Van Dyck ¹ , Prof. Jan Van Humbeeck ² , Prof. Bert Verlinden ² , | <u>Dr Julio Gutierrez Moreno</u> ¹, Dr Michael Nolan¹ | Dr. Daniel Sola 1, Dr. MJ Clemente ² , Dr. Rafael Cases ³ , Professor Pablo Artal 1 | Haitham Saleh, M. Schmidtchen, R. Kawalla |
| | Prof. Dominique Schryvers¹ "Emat, University Of Antwerp, Antwerp, Belgium, ²MTM, Department of Materials Engineering, University of Leuven, Leuven, Belgium | ¹ Tyndall National Institute, University College Cork, Cork, Ireland | · Laboratorio de Optica. Centro de Investigacion en Optica y Nanofisica. Universidad De Murcia. Murcia. Spain. ² Instituto de Ciencia de Materiales de Aragon. Universidad de Zaragoza-CSIC. Dion. Química Organica. Zaragoza. Spain. ² Departamento de Fisica de la Materia Condensada. Universidad de Zaragoza. Zaragoza. Spain | Tu Freiberg/ Institute of Metal Forming, Freiberg, Germany |
| | | EFFECT OF ELECTROPOLISHING ON CONVENTIONAL AND SEVER SHOT PEENED SURFACES PROPERTIES | | |
| 19.30 | | Dr. Gemma Vara Salazar¹, Dr. Patricia López-Ruiz¹, Dr. M. Belén García-Blanco¹, Dr. Oihane Garrido¹, Dr. Inés Fernández-Pariente², Dr. MArio Guagliano³, Dr. Sarah Bagherifard³ | | |
| | | ¹ IK4 CIDETEC, Surface Engineering Area, San Sebastián, Spain, ² University of Oviedo, Department of Materials Science and Metallurgical Engineering, Oviedo, Spain, ² Politecnico di Milano, Department of Mechanical Engineering, Milan, Italy | | |



| Symposium | A1 ZU1/ | D4 | D9 | E1 |
|---------------|--|--|---|---|
| Room | Museum Hall /M2 | Library Hall/M2 | Maurice Saltiel Hall I/M2 | CR II Hall/M2 |
| Session Title | In situ characterization I | Measurement techniques of mechanical fields at micro/nano scales | Advanced Nuclear Ceramics | Hydrogen Storage |
| Chairperson | Martin Albrecht | Xavier Maeder & Eric Le Bourhis | M. Angiolini | Rolf Hempelmann & Toshiyuki Mori |
| | KEYNOTE/INVITED IN STIT ELECTRON MICROSCOPY STUDIES OF FUNCTIONAL NANOSTRUCTURED MATERIALS – LINKING ATOMIC STRUCTURE TO PROPERTIES | HIGHLIGHT STRESS FIELD AND PLASTIC DEFORMATION MAPPING IN ROOM AND ELEVATED TEMPERATURE MICRO-CANTILEVER TESTING VIA IN-SITU HR-EBSD CHARACTERIZATION | KEYNOTE/INVITED JOINING OF SIC-BASED MATERIALS FOR NUCLEAR APPLICATIONS | KEYNOTE/INVITED HIGH-DENSITY HYDROGEN FILMS ADSORBED IN ENGINEERED CARBON NANOSPACES |
| 17.30 | | Dr. Ast Johannes ¹ , Dr. Michler Johann ¹ , <u>Dr. Xavier Maeder</u> ¹ | | Page Neiffer Andrew Cillege |
| | Professor Eva Olsson ¹ | Empa, Thun, Switzerland | Professor Monica Ferraris ¹ | Peter Pfeifer!, Andrew Gillespie!, Elmar Dohnke!, Lucyna Firlej ² , Bogdan Kuchta ³ |
| | | FULL-FIELD DEFORMATION MEASUREMENTS OF PHASE TRANSFORMING MATERIALS DURING IN-SITU SEM MECHANICAL TESTING Dr. Miroslav Smid¹, Wei-Neng Hsu¹², Dr. Efthymios | · 'Politecnico Di Torino, Torino, Italy | |
| 17.50 | | Polatidis ¹ , Dr. Steven Van Petegem ¹ , Prof. Helena Van Swygenhoven ^{1,2} | | ¹ Department of Physics, University of Missouri, Columbia, United States, ¹ Laboratoire Charles Coulomb (L2C), UMR 5221 CNRS-Université de Montpetlier, 34095 Montpetlier, France, ² Laboratoire |
| | ¹ Department of Physics. Chalmers University Of Technology, Gothenburg, Sweden | 'Swiss light source, Paul Scherrer Institute, Villigen, Switzerland, 'Neutrons and X-rays for Mechanics of Materials, EPFL, Lausanne, Switzerland | | MADIREL, UMR 7246 CNRS-Aix-Marseille Université, 13396 Marseille, France |
| | HIGHLIGHT DYNAMIC STUDIES OF NUCLEATION AND GROWTH PHENOMENA OF NANOMATERIALS | LOCAL STRAIN AROUND VERMICULAR GRAPHITE IN CAST IRON REVEALED BY SEM AND DIC COMBINATION | KEYNOTE/INVITED IN SITU 3D OBSERVATION OF MECHANICAL DAMAGE WITHIN SIC-SIC CERAMIC MATRIX COMPOSITES FOR NUCLEAR FUEL CLAD | STRUCTURAL AND HYDROGEN ABSORPTION- DESORPTION PROPERTIES OF La ² -x-yYxMgyNi7 COMPOUNDS Dr. Micheline Warde ¹ , Nicolas Madern ¹ , Dr. Junxian |
| 18.10 | Prof. Saso Sturm¹, Bojan Ambrožič¹, dr. Marjan Bele² | Prof. Lei Zhang¹, Dr. Cuihong Li¹ | | Dr. Patrick Bernard ² , Dr. Michel Latroche ¹ |
| | 'Jožef Stefan Institute, Ljubljana, Slovenia, 'National Institute of Chemistry, Ljubljana, Slovenia | ¹ Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China | Mr Shixiang Zhao ¹ , Dr Biao Cai ² , Prof. Peter Lee ³ , <u>Prof. James Marrow</u> ¹ ² | 'Université Paris Est, ICMPE, CNRS-UPEC, Thiais, France, 'SAFT, Direction de la Recherche, Bordeaux, France |
| | IN-SITU TRACKING THE STRUCTURAL AND CHEMI- CAL EVOLUTION OF NANOSTRUCTURED Cuct ALLOYS | DIC STRAIN ANALYSES AUGMENT MICRO-TENSILE CHARACTERIZATION OF TITANIUM ALLOYS | | HIGHLIGHT B-SUBSTITUTED NANOPOROUS CARBONS FOR HYDROGEN STORAGE: FROM COMPUTER SIMULATIONS TO EXPERIMENTAL VERIFICATION |
| 18.30 | <u>Dr. Zaoli Zhang</u> ¹, Mr Jinming Guo¹, Professor Gerhard Dehm², Professor Reinhard Pippan¹ | <u>Dr. Salahudin Nimer</u> ¹² , Dr. Richard Everett ² , Prof. Marc Zupan ² | ¹ University Of Oxford, Oxford, United Kingdom, ² Research Complex at Harwell, Harwell, United Kingdom | Prof Lucyna Firlei ^{1,3} , prof Bogdan Kuchta ^{2,3} , prof Peter Pfeifer ³ 'Laboratoire Charles Coulomb (L2C), UMR 5221 |
| | ¹ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, ² Max-Planck-In- stitut für Eisenforschung, Düsseldorf, Germany | 'Johns Hopkins University Applied Physics Laboratory, Laurel, United States, 'University Of Maryland, Balti- more County, Baltimore, United States | | CMRS-Université de Montpellier, Montpellier, Franc ² Laboratoire MADIREL, UMR 7246 CNRS-Aix-Marsei Université, Marseille, France, ¹ Department of Physic and Astronomy, University of Missouri, Columbia, U. |
| | IN SITU TEM HEATING IN COMBINATION WITH ACOM-STEM TO FOLLOW THE PRECIPITATION OF NANO-SCALED CARBIDES IN A LOW-CARBON LATH MARTENSITE | COMPREHENSIVE CHARACTERIZATION OF DISLO- CATIONS BY ELECTRON CHANNELING CONTRAST IMAGING IN SCANNING ELECTRON MICROSCOPE: FUNDAMENTAL AND PRACTICAL ASPECTS | THERMOMECHANICAL PERFORMANCES OF SIC/SIC COMPOSITES FOR NUCLEAR APPLICATIONS | HYDROGEN STORAGE PROPERTIES OF AN INTERMETALLIC POWDER. ROLE OF THE POWDER MANUPACTURING PROCESS ON ITS PROPENSITY TO ACTIVATION |
| 18.50 | ME Ankush Kashiwar ^{1,2} , Lutz Morsdorf ³ , Dr. Aaron Kobler ⁴ , Dr. Horst Hahn ^{1,2} , Dr. C. Cem Tasan ⁵ , Dr. Christian Kübel ^{1,6} | Ms Hana KRIAA', Dr Antoine GUITTON', Dr Nabila MALOUFI' | <u>Frédérique Bourlet</u> ¹, Christophe Lorrette¹, Thomas Guilbert¹, Cédric Sauder¹, Gérard Vignoles² | Dr Anne Maynadier¹, Dr HDR David Chapelle¹, Dr Dimitri Claudel¹, Pr Philippe Nardin¹, Pr Dominique Perreux¹, Pr Frederic Thiebaud¹ |
| | Institute of Nanotechnology, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany, Joint Research Laboratory Nanomaterials, Technische Universität Darmstadt, Darmstadt, Germany, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany, *EISS Microscopy, Peabody, USA, *Operatment of Materials Science and Engineer- ing, Massachusetts Institute of Technology, Cambridge, USA, *Kartsuhe Nano Micro Facility, Kartsuhe Institute of Technology, Eggenstein-Leopoldshafen, Germany | ¹ Laboratoire d'Étude des Microstructures et de Mécanique des Matériaux (LEM3) – UMR CNRS 7239, University of Lorraine., Metz, France | ¹ DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, Gif Sur Yvette, France, ² Université de Bordeaux, LCTS, Pessac, France | ¹ Univ.bourgogne Franche Comté, FEMTO-ST Institut Département of Applied Mechanics, CNRS/UFC/ENS MM/UTBM, Besançon, France |
| | | COMBINED MICRO-SCALE FULL-FIELD STRAIN MEASUREMENTS AND FINITE ELEMENT MODELLING FOR THE STUDY OF DAMAGE INITIATION IN DUAL-PHASE STEELS | STUDY OF MATERIALS BEHAVIOUR IN CONDITIONS SIMULATING HELIUM COOLANT IN V/HTR AND GFR SYSTEMS | REVIEW OF HYDROGEN ADSORPTION MODELING IN POROUS SYSTEM |
| 19.10 | | Dr Christophe Pinna¹, Ms Nurrasyidah Rohaizat¹, Dr Khaled Alharbi², Dr Hassan Ghadbeigi¹, Dr Dave Hanlon³ | Jana Kalivodova¹, Jan Berka¹, Jozef Dámer¹, Jan Vít¹, Pavel Hanus², Zuzana Skoumalová³ | Prof. Bogdan Kuchta ¹ , Prof. Lucyna Firlej ² , Prof. Peter Pfeifer ³ |
| | | ¹ The University Of Sheffield. Sheffield. United Kingdom. ² Taibah University, Madinah, Saudi Arabia, ³ Tata Steel R&D, IJmuiden. The Netherlands | l Centrum výzkumu Rež s.r.a., Prague, Czech Re- public, ² Technická Univerzita v Liberci, Studentská 1402/2, 46117 LiberecI, Czech Republic, ² UJV Řež a.s., Husinec- Řež, Hlavni 130, 25068 Husine-Řež, Czech Republic | 'Aix-Marseille University, Marseille, France, 'University of Montpellier, Montpellier, France, 'University of Missouri, Columbia, USA |
| | | | TOWARDS THE PRODUCTION OF PHASE-PURE Zr-BASED MAX PHASES | |
| 19.10 | | | Thomas Lapauw¹², Bensu Tunca¹², Dr. Konstantza Lambrinou¹, Prof. Dr. Jef Vleugels² | |
| | | | ¹ SCK CEN, Mol, Belgium, ² KU Leuven, Leuven, Belgium | |

| Symposium | E2 | E3 | F1 |
|--------------|---|---|---|
| Room | CR III Hall/M2 | Rehearsal Room 5.17/M1 | 3-20/M1 |
| ession Title | Li cathodes / Li anodes | Piezoelectrics and Energy Harvesting | Materials for cartilage regeneration. Processing of scaffolds |
| Chairperson | J. Scoyer | Spyros Diplas | Sophia Tsipas |
| | Co(0H)2@Mn02 NANOSHEET ARRAYS WITH SUPERIOR LITHIUM STORAGE PERFORMANCE | HIGHLIGHT PROCESSING OF LEAD-FREE PIEZOELECTRIC MATERIALS | A GAM STRATEGY WITH MSC SUPPORTED ON COLLAGEN MICROSPHERES FOR THE REGENERATION OF CARTILAGE |
| 17.30 | Dr Manab Kundu¹, Dr Ann Mari Svensson¹ | Dr Mari-Ann Einarsrud ¹ , MSc Mads Christensen ¹ , Dr Ky-Nam Pham ¹ , Dr Astri Bjørnetun Haugen ¹ , Dr Tor Grande ¹ | Dr Sophie Raisin ¹ , Dr Marie Morille ¹ , Dr Marc Mathieu ² , Dr Daniele Noel ² , Pr Christian Jorgensen ³ , Pr Jean-Marie Devoisselle ¹ , <u>Pr Emmanuel Belamie^{1,2}</u> |
| | 'Norwegian University of Science and Technology (NTNU), Trondheim, Norway | 'NTNU Norwegian University of Science and Technology, Trondheim, Norway | ¹ ICBM - MACS. Montpellier, France, ² EPHE, PSL Research University, Paris, France, ² INSERM U1183, Montpellier, France |
| | FACILE ONE-POT SYNTHESIS OF METAL PHOSPHIDE -NITROGEN-DOPED CARBON HYBRID NANOSHEET AS ULTRA-STABLE ANODE FOR LIBS AND SIBS | HIGHLIGHT PIEZOCERAMIC MATERIALS FOR VIBRATIONAL ENERGY HARVESTING | 3D PRINTED SILICA-GELATIN SOL-GEL HYBRID SCAFFOLDS FOR CAR- TILAGE TISSUE ENGINEERING - EFFECTS OF MATERIAL GEOMETRY ON CARTILAGINOUS MATRIX FORMATION |
| 17.50 | | <u>Dr. Erling Ringgaard</u> ¹ , Dr. Tomasz Zawada ¹ , Ms. L.M. Bierregaard ¹ , | Dr. Siwei Li¹, Dr. Maria Nelson¹, Prof. Molly Stevens¹, Prof. Julian Jones¹ |
| | Professor Genqiang Zhang' 'University of Science and Technology of China, Hefei, China | Dr. Michele Guizzetti ¹ , Dr. Ruichao Xu ¹ 'Meggitt Sensing Systems, Kvistgaard, Denmark | ¹Imperial College London, London, United Kingdom |
| | HIGH POWER AND HIGH ENERGY OLIVINES FOR LITHIUM BATTERIES: FROM GRAMS TO TONS | HIGHLIGHT ADDITIVE PRINT MANUFACTURE OF FILM BASED MICRO ENERGY HARVESTING DEVICES | SOL-GEL DERIVED LITHIUM-RELEASING BIOACTIVE GLASS FOR CARTILAGE REGENERATION |
| | Dr. Michel Trudeau', Dr Andrea Paolella', Dr Abdel Guerfi', Dr Pierre Hovington', Dr Ashok Vijh', Professor Alain Mauger ² , Dr Christian M. Julien ³ , Dr Michel Armand ⁴ , Dr John B. Goodenough ⁵ , Dr Karim Zaghib' | Professor Robert Dorey ¹ , Dr Rebecca Townsend ¹ , Dr Ewa Jakubczyk ¹ | <u>Dr. Siwei Li</u> ¹, Dr. Anthony Macon¹, Miss Manon Jacquemin¹, Prof. Molly Stevens¹, Prof. Julian Jones¹ |
| 18.10 | ¹Hydro-Quebec Research Institute, Varennes, Canada ²Physicochimie des Electrolytes et Nanosystèmes (PHENIX), CNRS UMR 8234, Sorbonne University, UPMC Uni, Paris 6, Paris, France, ¹Institut de Minéralogie de Physique des Matériaux et de Cosmochimie (IMPMC), CNRS UMR 7590, Sorbonne University, UPMC Uni Paris 6, Paris, France, ²-ClC Energygune, Minano, Spain, 5University of Texas at Austin, Austin, United-Sates | 'Centre of Engineering Materials, University Of Surrey, Guildford, United Kingdom | Imperial College London, London, United Kingdom |
| | LASER PYROLYSIS FOR THE CONTROLLED SYNTHESIS OF AMORPHOUS OR CRYSTALLINE SI@C NANOPARTICLES - MATERIAL SYNTHESIS AND PERFORMANCE CHARACTERIZATION IN LI-ION BATTERIES | SPECTROSCOPY BASED CHARACTERIZATION OF BAND GAPS AND BAND ALIGNMENT IN MATERIALS FOR ENERGY HARVESTING | NON-THERMAL PLASMA COATED 3D ADDITIVE MANUFACTURED SCAFFOLDS FOR TISSUE ENGINEERING |
| 18.30 | John P. Alper ¹² , Florent Boismain ¹ , Julien Sourice ¹² , Willy Porcher ² , Eddy Foy ¹ , Pierre Eugene Coulon ¹ , Aurélie Habert ¹ , Eric De Vito ² , Cecíle Reynaud ¹ , Cedric Haon ¹ , <u>Nathalie Herlin Boime</u> ¹ | Dr. Ingvild Julie Thue Jensen¹, Dr. Klaus Magnus Johansen², Adj. Assoc. Prof. Spyros Diplas¹, Adj. Prof. Ole Martin Løvvik¹, Dr. Vishnukanthan Venkatachalapathy², Assoc. Prof. Øystein Pryt², Prof. Andrej Yu. Kuznetsov², Assoc. Prof. Anette E. Gunæs², Prof Edouard Monakhov², Prof Bengt Svensson², Prof Leonard Brillson³, Adj. Prof Randi Haakenaasen⁴, Adj. Assoc. Prof Espen Flage-Larsen¹ | Pieter Cools ¹ , Nathalie De Geyter ¹ , Rino Morent ¹ |
| | ¹ NIMBE, CEA - CNRS UMR3685, Saclay, France, ² CEA, LITEN, 17 rue des martyrs, Grenoble, France | 'SINTEF Materials And Chemistry, Oslo, Norway, ² University of Oslo, Oslo, Norway, ³ Ohio State University, Columbus, USA, ⁴ Norwegian Defence Research Establishment, Kjeller, Norway | 'Ghent University, Department of Applied Physics, Research Unit Plasma Technology, Ghent, Belgium |
| | INVESTIGATING THE REACTION MECHANISM OF HIGH-PERFORMANCE NAFEPO4 AS A CATHODE MATERIAL FOR NA-Ion BATTERIES | MATERIALS AND REACTORS FOR THERMOCHEMICAL ENERGY STORAGE | BIOMIMIC SCAFFOLD FABRICATION VIA DUAL SYRINGE ELECTROSPINNING SYSTEM FOR DUAL DRUG ELUTED STENTS |
| 18.50 | Dr. Ghulam Ali [†] , Dr. Kyung Yoon Chung [†] | Dipl. Chem. Eng., MSc. Kyriaki G. Sakellariou ¹² , Dipl. Chem. Eng. Nikolaos I. Tsongidis ¹² , Dipl. Eng. in Materials Science and Engineering Chrysoula Pagkoura ¹ , Dipl. Chem. Eng., PhD George Karagiannakis ¹ , Chem. Eng., PhD., Head BD CERTH, APTL/CPERI/CERTH / Prof., Dep. of Chem. Eng., AUTH Atthanasios G. Konstandopoulos ¹² | Veroniki Bakola ¹ , Varvara Karagkiozaki ^{1,2} , Fotini Pappa ^{1,2} , Aikaterini- Rafailia Tsiapta ¹ , Eleni Pavlidou ³ , Theodora Choli-Papadopoulou ⁴ , loannis Moutsios ¹ , Stergios Logothetidis ¹ |
| | ¹ Korea Institute Of Science And Technology. Seoul. South Korea | Aerosol & Particle Technology Laboratory- APTL/CPERI/CERTH, Thermi, Greece, School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece | 'Nanomedicine Group, Lab for 'Thin Films- Nanomaterials, Nanosystems Nanometrology' Department of Physics, Aristotle University of Thessalon Greece, Thessaloniki, Greece, 'BL Nanobiomed P.C. Thessaloniki, Greece, saloniki, Greece, 'Department of Physics, Aristotle University of Thessalo Greece, Thessaloniki, Greece, 'Department of Chemistry, Aristotle Univers Thessaloniki, Greece, Thessaloniki, Greece |
| | | THERMAL EMISSION BASED ENERGY HARVESTING AND CONVERSION USING FUNCTIONAL NANOMATERIAL INTEGRATED OPTICAL DEVICES | |
| | | Dr. Paul Ohodnicki ¹ | |
| 19.10 | | ¹ National Energy Technology Laboratory / DOE, | |



| Symposium | F4 | н | H2 |
|---------------|--|--|--|
| Room | 3-21/M1 | I -16/M1 | Conference Room 2/M1 |
| Session Title | Innovative amorphous biomaterials and bioactive metals | Coproducts and Their Applications | Developments in Steel Industry |
| Chairperson | David MARCHAT | Orlando Rios | Inoue Ryo, Zhi Sun |
| | HIGHLIGHT CHITOSAN HYDROGEL BIOREACTORS FOR TISSUE ENGINEERING | KEYNOTE/INVITED IMPACT OF SUBSTITUTING NICKEL AND COBALT IN LITHIUM MIXED TRANSITION METAL OXIDES FOR LITHIUM BATTERIES | KEYNOTE/INVITED RESEARCH AND DEVELOPMENTS FOR CO, EMISSION REDUCTION FROM THE IRON AND STEEL INDUSTRIES IN SOUTH KOREA: AN OVERVIEW |
| 17.30 | Pr Laurent David¹ ¹Université Claude Bernard Lyon¹, Lab. Ingéniérie des Matériaux Polymères CNRS UMR 5223, Villeurbanne, France | Prof. Dr. Hans Juergen Seifert', Maryam Masoumi', Dr. Damian Cupid', Dr. Carlos Ziebert' | Professor Joonho Lee ¹ |
| 17.50 | A FRUGAL SYNTHESIS METHOD TO DEVELOP TOUGH AND STRETCHABLE HYDROGELS MSc Laura Zorzetto ¹ , MSc Daniela P. Pacheco ² , Dr. Paola Petrini ² *Department of Aerospace and Mechanical Engineering, Mechanics of Biological and Bio-inspired Materials Research Unit, University of Liege. Liege. Belgium, *Department of Chemistry, Materials and Chemical Engineering, Politecnico di Milano, Milan, Italy | [†] Karlsruhe Institute of Technology. Eggenstein-Leopoldshafen, Germany | [†] Korea University |
| | STUDY ON THE CORROSION, MECHANICAL AND CELL VIABILITY BEHAVIOUR OF A NEWLY DEVELOPED POROUS Fe-Mn-Si-Pd ALLOYS | HIGHLIGHT ELEVATED TEMPERATURE MATERIAL PROPERTIES IN THE AL-Ce ALLOY SYSTEM | CONDENSATION OF RARE EARTH ELEMENTS IN STEELMAKING SLAG |
| 18.10 | Jordina Fornell', Yu Ping Feng', Nerea Gaztelumendi', Huiyan Zhang' ³ , Pau Solsona', Dolors Baró', Santiago Suriñach', Elena Ibáñez², Lleonard Barrios², Eva Pellicer', Carme Nogués², Jordi Sort' ^{1,4} | VP Engineering/R&D Dave Weiss', Orlando Rios², Zachary Sims², Scott McCall³ | Ryo Inoue ¹ , Nao Kasai ² , Yasushi Takasaki ¹ , Atsushi Shibayama ¹ |
| | 'Departament de Fisica, Universitat Autònoma de Barcelona, Bel- laterra, Spain, 'Departament de Biologia Cel·lular, Fisiologia i Im- munologia, Universitat Autònoma de Barcelona, Bellaterra, Spain, 'School of Materials Science and Engineering, Anhui University of Technology, Ma'anshan, China, 'ICREA, Pg. Lluis Companys 23, E-08010 Barcelona, Spain, Barcelona, Spain | ¹ Eck Industries, Inc., Manitowoc, USA, ² Oak Ridge National Laboratory, Oak Ridge, USA, ³ Lawrence Livermore National Laboratory, Livermore, USA | [†] Akita University, Akita, Japan, ² Kobe Steel, Kobe, Japan |
| | NICKEL-FREE SUPERELASTIC TITANIUM ALLOYS IN MEDICINE : FROM THE ALLOY DESIGN TO THE REALIZATION OF MEDICAL DEVICE PROTOTYPES | HIGHLIGHT ADDRESSING FUNDAMENTAL CHALLENGES IN LITHIUM ION BATTERIES AND BEYOND | SELECTIVE LEACHING OF PHOSPHORUS FROM STEELMAKING SLAG BY CITRIC ACID |
| 18.30 | Prof Thierry Gloriant ¹ , Dr Doina-Margareta Gordin ¹ , Dr Philippe Castany ¹ , Dr Lorène Héraud ¹ , Philippe Marx ² | Craig Bridges ¹ | Mr. Takayuki Iwama ¹² , <u>Dr. Xu Gao</u> ', Mr. Chuan-ming Du', Dr. Sun-joong Kim ³ , Dr. Shigeru Ueda', Dr. Shin-ya Kitamura' |
| | 'INSA Rennes, UMR CNRS 6226 ISCR, Rennes, France, ² AMF Company, Lury-sur-Arnon, France | ¹Chemical sciences division, ORNL, Oak Ridge, United States | Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendat, Japan, "Nippon Steel & Sumitomo Metal Corporation, Japan, "Dept. of Materials Science and Engineering, College of Engineering, Chosun University, Gwangju, Korea |
| | EFFECT OF THE IMMERSION IN OMEM SOLUTION ON THIN MO WIRES FOR BIODEGRADABLE APPLICATIONS | HIGHLIGHT DEVELOPMENT AND APPLICATION OF A MATERIALS DESIGN SIMULATOR TO AL-Ce BASED ALLOYS | EFFECTS OF MINERALOGICAL PHASES IN STEELMAKING SLAG ON ALKALI ELUTION |
| 18.50 | Karel Tesar ¹ , Aleš Jäger ² , Karel Balík ³ | <u>Aurelien Perron</u> ¹ , Vincenzo Lordi ¹ , Orlando Rios ² , Davis Weiss ³ , Patrice E.A. Turchi ¹ | Mr. Zuoqiao Zhu¹, Dr. Xu Gao², Dr. Shigeru Ueda², Prof. Shin-ya Kitamura² |
| | Czech Technical University In Prague, Faculty Of Nuclear Sciences And Physical Engineering, Prague, Czech Republic, ¹ institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic ² Institute of Rock Structure and Mechanics of the Czech Academy of Sciences, Prague, Czech Republic | l'Lawrence Livermore National Laboratory, Livermore, USA, ² Oak Ridge National Laboratory, Oak Ridge, USA, ² Eck Industries, Manitowoc, USA | Graduate School of Engineering. Tohoku University, Sendai, Japan. ² Institute of Multidisciplinary Research for Advanced Materials. Tohoku University. Sendai, Japan |
| | | HIGHLIGHT LIQUID CRYSTALLINE EPOXY NETWORKS WITH DYNAMIC COVALENT BONDS AND TUNABLE SHAPE MEMORY PROPERTIES | EFFECT OF BASICITY AND OXYGEN PARTIAL PRESSURE ON THE MINERALOGY AND MICROSTRUCTURE OF SOLIDIFIED BOF SLAG |
| 19.10 | | <u>Dr. Michael Kessler</u> ¹ , Dr. Yuzhan Li ¹ | Mr. Chunwei Liu¹, Dr. Shuigen Huang¹, Dr. Lieven Pandelaers¹, Prof. Bart Blanpain¹, Dr. Muxing Guo¹ |
| | | ¹ Washington State University. Pullman, United States | [†] Dept. of Meterials Engineering, KU Lueven, Kasteelpark Arenberg 44 – box 2450, 3001 Heverlee, Belgium |
| | | USE OF SMALL-ANGLE NEUTRON SCATTERING TO CHARACTERIZE MODEL STEELS FOR NUCLEAR APPLICATIONS | |
| 19.30 | | Dr. Kenneth C. Littrell ¹ , Dr. Kevin G. Field ¹ , Dr. Samuel A. Briggs ² , Dr. Phillip D. Edmondson ¹ , Dr. Yukinori Yamamoto ¹ , Dr. Charles R. Daily ¹ , Professor Kumar Sridharan ² | |
| | | ¹ Oak Ridge National Laboratory, Oak Ridge, United States, ² University of Wisconsin, Madison, United States | |
| | 1 | 1 | |



| Symposium | A3 | A5 | A8 | B1 |
|---------------|--|---|--|---|
| Room | I-11/M1 | MOYSA Hall/M2 | I-08/M1 | Conference Room 3/M1 |
| Session Title | Nanostructured polymers IV | Nanoparticle Synthesis and applications II | Design of new properties | Advanced High Strength Steels I |
| Chairperson | Jannick Duchet-Rumeau | Raffaela Buosanti | Massimiliano Stengel | Sébastien Allain |
| | MECHANOCHROMIC EFFECT OF EPOXY VITRIMER COMPOSITES CONTAINING AROMATIC DISULPHIDE CROSSLINKS | <u>HIGHLIGHT</u> COBALT NANOWIRE BASED MODEL CATALYSTS FOR FISCHER TROPSCH SYNTHESIS | KEYNOTE/INVITED NOVEL FUNCTIONALITIES IN ATOMICALLY CONTROLLED OXIDE HETEROSTRUCTURES BY PULSED LASER DEPOSITION | KEYNOTE/INVITED MICROSTRUCTURE AND MECHANICAL PROPERTIES OF TRANSFORMATION-INDUCED PLASTICITY STEEL PRODUCED BY LABORATORY SIMULATED STRIP CASTING |
| 11.00 | Alaitz Ruiz De Luzuriaga ¹ , Nerea Markaide ¹ , Alaitz Rekondo ¹ , Hans-Jürgen Grande ¹ , Fernando Ruiperéz ² , José Mari Asua ² , Jon Mattin Matxain ² | Dr Katerina Soulantica', Dr Justine Harmel\(^2\), Adrien Berlief\(^2\), Laurent Peres\(^1\), Dr Sylvie Maury\(^3\), Dr Antoine Fécan\(^3\), Dr Bruno Chaudret\(^1\), Prof Philippe Serp\(^2\) | | |
| | ¹Ik4-cidetec, San Sebastián, Spain, ²Polymat, San Sebastián, Spain | ¹ LPCNO, Université de Toulouse, CNRS, INSA, UPS, Toulouse, France, ² LCC, CNRS-UPR 8241, ENSIACET, Université de Toulouse, Toulouse, France, ³ IFP Energies Nouvelles, Solaize, France | Guus Rijnders ¹ | <u>Professor Elena Pereloma</u> ¹ , Mr Zhiping Xiong ¹ , Dr Andrii Kostryzhev ¹ , Dr Ross Marceau ² , Dr Ahmed Saleh ¹ , Dr Adam Taylor ² |
| | Fe304/EP0XY NANOCOMPOSITES: MANUFACTURING, CHARACTERIZATION AND FUNCTIONALITY | PLATINUM NANOPARTICLES TO VERY EFFICIENTLY CATALYSE ALKENE HYDROSILYLATION | | |
| 11.20 | Mrs Aikaterini Sanida¹, Mr Sotirios Stavropoulos¹, Dr. Thanassis Speliotis², Prof. Georgios Psarras¹ | Dr Thomas Galeandro-Diamant ^{1,2} , Dr Marie-Line Zanota', Dr Reine Sayah', Dr Laurent Veyre ² , Dr Sébastien Marrot ³ , Dr Valérie Meille ¹ , Dr Chloé Thieuleux ² | ¹ University of Twente, MESA + Institute for Nanotechnology, Enschede, the Netherlands | ¹ University of Wollongong, Wollongong, Australia, ² Deakin University, Geelong, Australia |
| | "Smart Materials & Nanodielectrics Laboratory, Department of Materials Science, School of Natural Sciences, University of Patras, Patras, Greece, "Institute of Nanoscience and Nanotechnology, NCSR "Demokri- tos", Athens, Aghia Paraskevi, Greece | ¹ LGPC-CNRS University of Lyon, Villeurbanne, France, ² LC2P2-CNRS University of Lyon, Villeurbanne, France, ³ Bluestar Silicones France, St Fons, France | | |
| | A NEW APPROACH TO THE PROTECTION OF STEEL FOR AEROSPACE APPLICATIONS | GREEN SYNTHESIS OF CUPROUS OXIDE NANOPARTICLES WITH ULTRASOUND ASSISTANCE | HIGHLIGHT THE ORIGIN OF UNIAXIAL NEGATIVE THERMAL EXPANSION IN LAYERED PEROVSKITES | STRAIN-INDUCED TRANSFORMATION IN LOW ALLOY TRIP STEELS: CHARACTERIZATION BY MAGNETIC FORCE MICROSCOPY |
| 11.40 | Pierre Loison¹², Loïc Exbrayat¹, Pr Juan Creus¹, Pr Sebastien Touzain¹, Bruno Rameau², Elisa Campazzi³ | Ing. Pietrogiovanni Cerchier', prof. Manuele Dabalà', Katya Brunelli' | Dr Arash Mostofi¹, Mr Chris Ablitt¹, Ms Sarah Craddock⁴, Dr Mark Senn³⁴, Dr Nicholas Bristowe¹² | Professor Greg Haidemenopoulos ¹ , Professor George Constantinides ² , Illias Bellas ³ , Dr Daniel Krizan ⁴ , <u>Dr Helen Kamoutsi³</u> |
| | "Laboratoire des Sciences pour l'Ingénieur (LaSIE), La Rochelle, France, "Airbus Safran Launchers, Saint- Médard-En-Jalles, France, "Airbus Group Innovation, Suresnes, France | ¹ University Of Padova, Padova, Italy | ¹ Imperial College London, ² University of Kent, ³ University of Warwick , ⁴ University of Oxford | ¹ Khalifa University, Abu Dhobi, United Arab Emirates ² Cyprus University of Technology, Limassol, Cyprus ³ University of Thessaly, Volos, Greece ⁴ Voestalpine, Linz, Austria |
| | EPOXY THERMOSETS / FIBRILLAR CLAY SUSTAIN- ABLE NANOCOMPOSITES. AUTO-ORGANIZATION PHENOMENA AND COMPONENTS INTERACTIONS | FACILE SYNTHESIS AND CHARACTERIZATION OF Cu-BASED NANOSTRUCTURED MATERIALS | FABRICATION AND CHARACTERIZATION OF NANO- IMPRINTED ORGANIC-INORGANIC MULTIFERROIC NANOCOMPOSITES | A CRITICAL REVISIT TO THE WORK HARDENING AND STRAIN RATE SENSITIVITY OF CARBON-ALLOYED HIGH MANGANESE AUSTENITIC STEEL |
| 12.00 | Associate Professor Alice Mija ¹ , Dr Guillaume Falco ¹ , Dr Romain Castellani ² , Dr Nicolas Volle ² , Sophie Pag- notta ⁴ , Dr Françoise Giulieri ² , Dr Edith Peuvrel-Disdier ² | Miss Shaima AlYafei¹, Dr Georgia Basina*¹. Dr Vasileios Tzitzios¹, Dr. Balasubramanian Vaithilin- gam², Dr. Issam Ismail¹, Dr. Yasser Al Wahedi*¹ | Pedro Sá ¹ | Mr. Z.C. Luo', Dr. M.X. Huang' |
| | ¹ University of Nice Sophia Antipolis, ICN, Nice, France, ² MINES ParisTech, CEMEF, UMR CNRS 7435, CS 10207. Sophia Antipolis, France, ³ SAS PIGM Azur, Nice, France, ⁴ Université Nice Sophia Antipolis; Centre Commun de Microscopie Appliquée, Nice, France | ¹ Department of Chemical Engineering, The Petroleum Institute, P.O. Box 2533, UAE, Abu Dhobi, United Arab Emirates ² Tikneere Research Center, Abu Dhobi Oil Refining Company (TAKREER), P.O. Box: 3593, UAE, Abu Dhobi, United Arab Emirates | ¹ Université Catholique De Louvain (UCL), Boltzmann A141, Croix Du Sud, 1 L7.04.02, Belgium | ¹ Department of Mechanical Engineering, The University Of Hongkong, Hongkong, China, ² Shenzhen Institute of Research and Innovation, The University Of Hongkong, Shenzhen, China |
| | OPTIMIZED PROCESSING CONDITIONS FOR HIGH-PERFORMANCE FERROELECTRIC P(VDF-TrFE) FILMS | THE EFFECT OF STRAIN ON Ag+ CATION SUBSTITUTION IN CdSe Nanocrystals | NEW ROUTES TO VERTICALLY ALIGNED MULTIFER- ROIC NANOCOMPOSITES: DESIGN AND MAGNETO- ELECTRIC COUPLING | STRAIN-HARDENING MECHANISMS IN HIGH-Mn TRIP/TWIP STEEL STUDIED BY IN-SITU SYNCHROTRON X-RAY DIFFRACTION |
| 12.20 | Nicoletta Spampinato ¹ , Dr. Jon Maiz ¹ , Dr. Mario Maglione ² , Prof. Georges Hadziioannou ¹ , Dr. Eleni Pavlopoulou ¹ | <u>Dr Urko Petralanda</u> ¹, Dr Luca De trizio¹, Prof Liberato Manna¹, Dr Sergey Artyukhin¹ | Mr. Sergey Basov ¹ , Doc. Catherine Elissalde ² , Prof. Luc Piraux ¹ | M.Sc. Yan Ma', DrIng. Wenwen Song', UnivProf. DrIng. Wolfgang Bleck ¹ |
| | "Laboratoire de Chimie des Polymères Organiques (LCPO – UMR5629). Université de Bordeaux/Bordeaux INP/CNRS, Pessac Cedex, France. ² Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB – UPR9048), CNRS, Pessac Cedex, France | ¹Italian Institute of Technology, Italy | ¹ BSMA-IMCN, Université catholique de Louvain, Louvain-la-Neuve, Belgium, ² ICMCB-CNRS, Université de Bordeaux, Pessac, France | ¹ Steel Institute, RWTH Aachen University, Aachen, Germany |
| | POLYMER COMPOSITES FOR THE PHOTOACTIVATED OPTOCHEMOSENSING OF TOXIC CONTAMINANTS | | FROM SINGLE TO MULTILAYER COATINGS TO INCREASE THERMAL STABILITY AND OXIDATION RESISTANCE | THE TRIP EFFECT OF AUSTENITIC STEELS UNDER MULTIAXIAL LOADING |
| 12.40 | Despina Fragouli'. Maria Erminia Genovese¹. Athanassia Athanassiou¹ | | Dr. Konstantin Kuptsov [†] , Mehran Golizadeh [†] , Natalia Shvyndina [†] , Prof. Dmitry Shtansky [†] | Dr. Efthymios Polatidis ¹ , Mr. Wei-Neng Hsu ¹² , Dr. Tobias Panzner ³ , Dr. Miroslav Smid ¹ , Prof. Prita Pant ⁴ , Prof. Helena Van Swygenhoven ¹² |
| | 'Istituto Italiano Di Tecnologia, Genova, Italy | | ¹ National Univercity Of Science And Technology "misis". Moscow, Russian Federation | "Swiss light source, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland, "Neutrons and X-rays for Mechanics of Materials, MM, Ecole Polytechnique Federale de Lausanne, CH-1012 Lausanne, Switzerland, "Laboratory for Neutron Scattering, NUM, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland," Laboratory for Neutron Scattering, NUM, Paul Scherrer Institute, CH-5232 Villigen PSI, Switzerland, "Uppartment of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai (400076, India |

| Symposium | B2 | В3 | B5 | B10 |
|---------------|--|--|---|---|
| Room | Aimilios Riadis Hall/M2 | CR I Hall/M2 | Conference Room 1/M1 | Maurice Saltiel Hall II/M2 |
| Session Title | Titanium | Advanced Characterization | Shaping and Sintering of Oxide based Ceramics | Fatigue & Fracture IV - Microstructural Aspects |
| Chairperson | Dallas Trinkle | M. Azeem | Sophia Tsipas | Martin Leitner |
| | KEYNOTE/INVITED INFLUENCE OF INSTABILITIES ON THE REFINED DISTRIBUTION OF THE ALPHA PHASE IN METASTABLE TITANIUM ALLOYS | IN SITU 3D INVESTIGATION OF DENDRITIC PATTERN FORMATION IN NI, Fe AND Co ALLOYS | FABRICATION OF CORDIERITE-MULLITE CERAMICS WITH HIERARCHICAL POROSITY INDUCED BY GAS FORMING AND CELLULOSE SPHERE TEMPLATES | A MICROSTRUCTURE DRIVEN MODELING APPROAC FOR THE PREDICTION OF FATIGUE PROPERTIES |
| 11.00 | | <u>Dr Mohammed A Azeem</u> ¹² , Dr Robert C Atwood ¹²³ , Dr Nghia Vo ³ , Professor Peter D Lee ¹² | <u>Dr.sc.ing. Ruta Svinka</u> ¹ , Dr.sc.hab ing Visvaldis Svinka ¹ , Mg.sc. Martin Stumpf ² , Dr.ing. Tobias Fey ² | <u>Karl Gillner</u> ¹ , Prof. DrIng Sebastian Münstermann |
| | <u>Prof. Hamish Fraser</u> ¹ | 'School of Materials. The University of Manchester, Oxford Rd. Manchester M13 9PL. United Kingdom, 'Research Complex at Harwell. Harwell Campus, Oxfordshire 0X11 0FA. United Kingdom, 'Diamond Light Source Ltd., Harwell Science and Innovation Campus Didcot 0X11 0DE, United Kingdom | ¹ Riga Technical University Institute of Silicate Materials, Riga, ² Friedrich-Alexander University Erlangen-Nuremberg Departament of Glass and Ceramic, Erlangen, | ¹ Department Of Integrity Of Materials And Structures Of The Steel Insitute Of Rwth Aachen University, Aachen, Germany |
| | | A COMPARISON OF METHODS FOR QUANTITATIVE ASSESSMENT OF TCP PHASE FORMATION IN NICKEL-BASE SUPERALLOYS | CERAMIC COMPOSITES VIA ADDITIVE MANUFACTURING | MICROMECHANICAL MODELING OF FATIGUE CRAC Initiation in Aluminum 2024 |
| 11.20 | ¹The Ohio State University, Columbus, United States | Alison Wilson ¹ , Katerina Christofidou ¹ , Alex Evans ² , Mark Hardy ³ , Howard Stone ¹ | Ezra Feilden¹, Dr Claudio Ferraro¹, Dr Esther Garcia Tunon-Blanca¹, Dr Finn Giuliani¹, Dr Luc Vandeperre¹, Prof Eduardo Saiz¹ | <u>Dr. Hamad UI Hassan</u> ¹. Wenye Ye¹, Prof. Alexander Hartmaier¹ |
| | | Department of Materials Science and Metallurgy, University Of Cambridge, UK, ² Rolls-Royce Deutschland, ³ Rolls-Royce plc, Derby, UK | ¹ Imperial College London, London, United Kingdom | Interdisciplinary Centre For Advanced Materials Simulation (ICAMS) at the Ruhr-Universität Bochum Germany, Bochum, Germany |
| | HIGHLIGHT USING METASTABILITY TO ENGINEER THE MICROSTRUCTURE OF A TI ALLOY PRODUCED BY SELECTIVE LASER MELTING | DEFORMATIONS OBSERVING AT HIGH TEMPERATURE USING DIGITAL IMAGE CORRELATION METHOD | THE INFLUENCE OF INITIAL FORM OF POWDER AND SINTERING CONDITIONS ON PROPERTIES OF THE CERAMIC, OBTAINED BY SPARK PLASMA SINTERING METHOD, ON AN EXAMPLE COMPOUNDS PrPO4 AND Zr02+0.25(MOL.%)SM(Yb)01.5 | MICROSTRUCTURAL AND EDGE-QUALITY EFFECTS ON THE FATIGUE PERFORMANCE OF HIGH STRENGTH STEELS |
| 11.40 | Prof. Dr. Guillermo Requena ¹² , Dr. Pere Barriobero Vila ¹ , Dr. Joachim Gussone ¹ , Dr. Jan Haubrich ¹ , Dr. Stefanie Sandloebes ² , Dr. Julio Cesar Da Silva ³ , Dr. Peter Cloetens ³ , Dr. Norbert Schell ⁴ | Yong Shang', Shusuo Li', YanLing Pei', HuiBin Xu', ShengKai Gong* ¹ | Ekaterina Potanina ¹ , Dmitry Mikhailov ¹ , Albina Orlova ¹ , Aleksey Nokhrin ¹ , Maksim Boldin ¹ , Nikita Sakharov ¹ , Evgeny Lantsev ¹ | Carlos Jiménez-peña¹, Constantinos Goulas³⁴, Prof. Barbara Rossi², Prof. Dimitri Debruyne¹ |
| | ¹ DLR Institute of Materials Research, Cologne, Germany, ² RWTH Auchen, Germany, ³ ESRF, Grenoble, France, ⁴ HZG, Geesthacht, Germany | 'School of material science and engineering, Beihang University, NO.37, Xueyuan Road, Haidian District, Beijing, China, China | ¹ Nizhny Novgorod State University, Nizhny Novgorod, Russia | KU Leuven, Department of Metallurgy and Materia Engineering, Leuven, Belgium, 'KU Leuven, Depart ment of Civil Engineering, Leuven, Belgium, 'Mater innovation institute (M2i), Delft, The Netherlands, 'U University of Technology, Department of Materials Science and Engineering, Delft, The Netherlands |
| | HIGHLIGHT INVESTIGATION OF COMPLEX TITANIUM BASED ALLOYS BY ELECTRON MICROSCOPY AND X-RAY DIFFRACTION | IN-SERVICE ENVIRONMENTAL DEGRADATION OF AN INCONEL 625 FORMULA 1 CAR EXHAUST | NATURAL BIOCERAMIC PRODUCTION AND CHAR- ACTERIZATION FROM FISH BONES OF EUROPEAN ANCHOVY (ENGRAULIS ENCRASICOLUS) | 3D IMAGING OF WHITE ETCHING CRACKS (WECs) IN BEARING STEELS |
| | Florian Pyczak¹ | Dr Stella Pedrazzini ¹ , Ms Hazel Gardner ² , Mr James Douglas ² , Dr Elena Kiseeva ³ , Dr Robert Escoube ³ , Ms Gabriella Chapman ² , Prof Didier De Lille ⁴ , Dr Paul Bagot ¹ , Dr Howard Stone ¹ | Assist. Prof. Yesim Muge Sahin ^{1,2} , Ismık Deniz Ismık ² , Ms. Esra Altun ³ , Mr. Burak Ozbek ³ , Dr. Hasan Gokce ⁵ , Prof. Simeon Agathopoulos ⁵ , Mr. Mehmet Onur Aydogdu ⁷ , Prof. Faik Nuzhet Oktaró ³ , Assist. Prof. Oguzhan Gunduz ^{7,3} | Mr Matthew Curd¹. Dr Timothy Burnett¹, Dr Ali Gholinia¹. Prof Phil Withers¹ |
| 12.00 | ¹ Helmholtz-Zentrum Geesthacht, Geesthacht, Germany | Department of Materials Science and Metallurgy, University Of Cambridge, Cambridge, UK, Department of Materials, University of Oxford, Oxford, UX, Pepartment of Earth Sciences, University of Oxford, Oxford, UK, Good Fabrications Performance Exhausts, Aylesbury, UK, Nuclear Decommissioning Authority, Harwell, UK | Istanbul Arel University, Istanbul' Buyukcekmece / Tepekent, Tur- key, *IerleDTKAMPalymer Technologies and Composite Materials R&D Centel, Istanbul Buyukcekmece / Tepekent, Turkey, *Faculty of Technology, Marmara University /Advanced Nanomaterials Research Laboratory, Istanbul *Kadkioy Ziverhey, Turkey, *Istan- bul Technical University / Prof. Dr. Adnan Tekin Material Science and Production Technology Applied Research Center, Istanbul Maslak, Turkey, *University of Joannina / Department of Materials Science and Engineering, Jannia, Greece, Marmara University /Department of Bioengineering/ Faculty of Engineering, Istanbul / Kadikoy / Ziverbey, Urikey, *Marmara University / Department of Metallurgy and Materials Engineering/ Faculty of Technology / Istanbul / Kadikoy / Ziverbey, Urikey, *Marmara University / Septimentals Engineering/ Faculty of Technology | ¹ University of Manchester |
| | HIGHLIGHT HIGH THROUGHPUT INVESTIGATION OF SOLUTE EFFECTS IN BETA TI ALLOYS | | CORRELATTION BETWEEN MICROSTRUCTURE AND MECHANICAL PROPERTIES OF BORON SUBOXIDE B60 CERAMICS; A TEM STUDY | IN SITU TEM INVESTIGATION OF HIGH-CYCLE FATIGUE AND FAILURE IN NANOCRYSTALLINE CUTHIN FILMS |
| 12.20 | Chuanyun Wang¹, Dr. Yuwen Cui¹, Dr. Maria Teresa Perez Prado¹ | | Prof. Hans-Joachim Kleebe ¹ | Douglas Stauffer ² , Daniel Bufford ¹ , William Mook ³ , Brad Boyce ⁴ , Khalid Hattar ¹ |
| | 'Imdea Materials Institute, Spain | | Technische Universität Darmstadt, Darmstadt, Germany | Radiation-Solid Interactions Sandia National Labo tories ,Albuquerque, United States, 'Radiation-Solid teractions Sandia National Laboratories, Albuquerqu USA, 'Center for Integrated Nanotechnologies Sand National Laboratories United States, Albuquerque, USA, 'Materials Mechanics and Tribology Sandia National Laboratories, Albuquerque, USA |
| | | | INFLUENCE OF GRAIN SIZE ON THE MECHANICAL PROPERTIES AND SPUTTERING RESISTANCE OF h-BN CERAMICS | OBSERVATIONS OF CRACK TIP STRAIN AND DISPLACEMENT FIELDS DURING FATIGUE UNDER VARIABLE MODE-MIXITY |
| 12.40 | | | Xiaoming Duan ¹ , Dechang Jia ¹ , Zheng Wang ¹ , Zhuo Tian ¹ , Zhihua Yang ¹ , Yu Zhou ¹ | Professor Michael Vormwald ¹ , Professor José L.I Freire ² , Mr. G. L.G. Gonzáles ² , Mr. J.G. Diaz ² |
| | | | ¹ Harbin Institute Of Technology, China | 'Technische Universität Darmstadt, Darmstadt, Gen ny, ² Pontifical Catholic University of Rio de Janeiro, Rio de Janeiro, Brasil |



| Symposium | B11 | C1 | C2 | C6 |
|---------------|--|--|--|--|
| Room | Maurice Saltiel Hall III/M2 | Friends of Music Hall/M1 | Conference Room 4/M1 | I-15/M1 |
| Session Title | Advanced In-Situ Measurement Methods | Coatings and thin films 4/6 -Wear coatings | Laser surface texturing and deposition | Welding 3 |
| Chairperson | F. Walther | N. Markocsan, E. Aperathitis | Gert-willem Romer | Ivan Kaban |
| | HIGHLIGHT RESIDUAL STRESSES IN Au-Cu-ag ALLOYS: A NEUTRON DIFFRACTION EXPERIMENT | HIGHLIGHT ELABORATION OF WEAR RESISTANT CARBIDE-BASE SURFACE LAYERS VIA CONCENTRATED SOLAR POWER | HIGHLIGHT TAILORING FRICTION OF LUBRICATED SURFACES BY FEMTOSECOND LASER TEXTURING | IN-SITU POST WELD HEAT TREATMENT OF HIGH STRENGTH LOW ALLOY STEEL DURING ELECTRON BEAM WELDING |
| 11.00 | Ms. Marina Garcia Gonzalez ¹² , Dr. Steven Van Petegem ¹ , Prof. Dr. Helena Van Swygenhoven ¹² | Dr. Pandora Psyllaki ¹ , Ph.D. canditate Athanasios Mourlas ² , Dr. George Vourlias ² , Dr. Eleni Pavlidou ² , Jose Rodriguez ³ , Dr. Inmaculada Cañadas ³ | Antonio Ancona ^{1,2} , Gagandeep Singh Joshi ^{1,4} , Carmine Putignano ^{1,3} , Caterina Gaudiuso ^{1,4} , Annalisa Volpe ^{1,4} , Pietro Mario Lugarà ^{1,4} , Giuseppe Carbone ^{1,3} | Ahmed Hussein ¹ , Christian Schneider ¹ , Dr. Wolfgang Ernst ² , Prof. Norbert Enzinger ¹ , Prof. Christof Sommitsch ¹ |
| | ¹ Paul Scherrer Institute, Villigen, Switzerland, ² École Polytechnique Fédérale de Lausanne, Laussane, Switzerland | Piraeus University of Applied Sciences, Depart- ment of Mechanical Engineering, Egaleo, Greece, 'Aristotle University of Thessaloniki (AUTh), Physics Department, Thessaloniki, Greece, 'Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Plataforma Solar de Almeria, Tabernas Almeria, Spain | CNR- Institute for Photonics and Nanotechnol- ogies Bari, Physics Dept Campus Universitario - via Orabona ⁴ - Bari, Italy, ² Dept. of Engineering Science, University West, Trollhättan, Sweden, ³ Department of Mechanics, Mathematics and Man- agement, Politecnico di Bari, Bari, Italy, ⁴ Università degli Studi di Bari, Dept. Physics, Bari, Italy | Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria, "voestal- pine Stahl GmbH, Linz, Austria |
| | MECHANICAL BEHAVIOR OF 316L STEEL SUBJECTED TO BIAXIAL STRAIN PATH CHANGES: MULTI-SCALE AND EXPERIMENTS | STRESS REDUCTION IN HARD TI(ALV)N FILMS RESISTANT TO CRACKING BY ENERGY DELIVERED DURING THEIR GROWTH | LASER POWDER CLADDING OF WEAR- AND CORROSION-RESISTANT MATERIALS | MICROSTRUCTURAL AND MECHANICAL CHARACTER- IZATION OF AA2024 ALUMINIUM ALLOY – PURE COPPER LINEAR FRICTION WELDS |
| 11.20 | Dr. Manas Upadhyay ¹ . Dr. Anirban Patra ² . Dr. Wei Wen ² . Dr. Tobias Panzner ¹ . Dr. Steven Van Petegem ¹ , Dr. Carlos Tome ² . Dr. Ricardo Lebensohn ² , Prof. Dr. Helena Van Swygenhoven ² | Martin Jaroš¹ | Ph.D student Rudolf Korsmik¹. D.Sc., Prof. Gleb Turichin², Ph.D. Olga Klimova- Korsmik¹, M.Sc. Konstantin Babkin¹ | Dr. Marie-Noelle Avettand-Fenoel ¹ . Dr. Guillaume Racineux ² . Dr. Roland Taillard ¹ |
| | ¹ Paul Scherrer Institute, Villigen Psi, Switzerland. ² Los Alamos National Laboratory, Los Alamos, Usa, ³ Ecole Polytechnique Federale De Lausanne, Lausanne, Switzerland | 'University Of West Bohemia, Pilsen, Czech Republic | Peter the Great Saint-Petersburg Polytechnic University, Saint-petersburg, Russian Federation, ² Saint-Petersburg State Marine Technical University, Saint-Petersburg, Russion Federation | 'Unité Matériaux El Transformations (UMET), UMR CNRS 8207. Université Lille', Villeneuve d'Asca, France.'Institut de Recherche en Génie Civil et Mé- canique, UMR CNRS 6183. Ecale Centrale de Nantes, Nantes, France |
| | TIME RESOLVED X-RAY DIFFRACTION FOR STRESS MEASUREMENTS DURING FATIGUE TESTS AT 20kHZ | NANO-SIZED CARBON BLACK PARTICLE REIN- FORCED COMPOSITE COATINGS: MECHANICAL BEHAVIOR-STRUCTURE RELATION | LASER SURFACE STRUCTURING TO IMPROVE TRIBOLOGICAL SYSTEMS AT MIXED LUBRICATION | ENABLING TZM SHEET WELDS BY PROPER FILLER METAL ADDITION |
| 11.40 | Dr Nicolas Ranc ¹ , <u>Dr Olivier Castelnau</u> ¹ , Maxime Pelerin ¹ , Vincent Michel ¹ , Pr. Veronique Favier ¹ , Dr Dominique Thiaudiere ² , Dr Cristian Mocuta ² | <u>Dr. Orkut Sancakoglu</u> ¹, Prof. Dr. Tevfik Aksoy¹ | Tobias Stark¹ | Johann Sebastian Kramer ¹ , <u>Markus Stuetz¹.</u> Matthias Ruettinger ² , Markus Koegl ² , Nikolaus Reheis ² , Norbert Enzinger, Heinrich Kestler ² |
| | ¹ Laboratory PIMM (Arts & Metiers ParisTech / CNRS), Paris, France, ² Synchrotron Soleil, Gif-sur-Yvette, France | 'Dokuz Eylul University, İzmir, Turkey | ¹Robert Bosch GmbH, Renningen, Germany | 'Institute of Materials Science, Joining And Forming, Graz University of Technology, Graz, Austria, 'Plansee SE, Reutte, Austria |
| | CHARACTERIZATION OF LOCAL DAMAGE MECHANISMS BY IN SITU SEM METHODS AND MATHEMATICAL IMAGE ANALYSIS | STRUCTURE, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF HVOF SPRAYED (WC-Co+AI) COMPOSITE COATING ON DUCTILE CAST IRON | LASER DIRECT WRITING OF AG NANOWIRES FOR FLEXIBLE ELECTRONICS | INFLUENCE OF MANDREL'S SURFACE ON JOINTS PRODUCED BY EMPT |
| 12.00 | Prof. Dring. Tilmann Beck ¹ . DiplIng. Sebastian Schuff ¹ . JunProf. DrIng. Frank Balle ¹ , M. Sc. Jan Henrik Fitschen ² , Prof. Dr. Gabriele Steidl ² | Phd.Dsc.eng Marzanna Ksiazek¹², Ms.Eng. Lukasz Boron², Prof. Marta Radecka¹, Prof. Maria Richert¹, Ms.Eng Adam Tchorz² | <u>Dr. Filimon Zacharatos</u> ', Mr Ioannis Theodorakos ¹ , Mr. Agamemnon Kalaitzis ¹ , Prof. Ioanna Zergioti ¹ | PhD Inês Oliveira ¹ , Professor Ana Reis ² |
| | ¹ Institute Of Materials Science And Engineering (WKK), TU Kaiserslautern, Kaiserslautern, Germany, ² Department of Mathematics, TU Kaiserslautern, Germany | ¹ AGH University of Science and Technology, Cracow, Poland, ² Foundry Research Institute, Cracow, Poland | 'National Technical University Of Athens, School of Applied Mathematics and Physical Sciences - Department of Physics, Athens, Greece | 'INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering, Campus da Feup Rua Dr. Roberto Frias, 400. Portugal, 'Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias, s/h. Portgual |
| | MICROSTRUCTURE AND MAGNETIC DOMAIN STRUC- TURE OF GRAIN-ORIENTED Fes-3%SI STEEL AND ARMCO IRON IN UNDEFORMED STATE AND AFTER ELASTIC-PLASTIC DEFORMATION | ZIRCONIA FILMS: MICROSTRUCTURES AND MECHANICAL STRENGTH | NANOSECOND LASER SURFACE TREATMENT OF STEELS. DIFFERENT APPLICATIONS IN THE FIELDS OF CORROSION, NUCLEAR INDUSTRY AND DECONTAMINATION | EFFECT OF BORON CONTENT ON LIQUATION CRACKING IN AUSTENITIC STAINLESS STEELS FOR WELDED COMPONENTS OF PRESSURIZED WATER REACTORS |
| 12.20 | M.sc. Shayan Deldar ¹ , DrIng. Marek Smaga ¹ , Prof. DrIng. Tilmann Beck ¹ | Josiane Christelle Djuidje Dzumgam ¹ , Pr Clotilde BERDIN ¹ , Dr Michel ANDRIEUX ¹ , Patrick RIBOT ¹ | <u>Wilfried Pacquentin</u> ¹ , Luisa Carvalho ¹ , Michel Tabarant ¹ , Alexandre Semerok ¹ , Hicham Maskrot ¹ | PhD Student Giai TRAN VAN ¹² , Associate Professor Denis CARRON ¹ , PhD Vincent ROBIN ² , Professor Philippe LE MASSON ¹ , PhD Antoine ANDRIEU ² |
| | ¹ TU Kaiserslautern, Institute of materials science and engineering, Kaiserslautern, Germany | ¹ICMMO, CNRS UMR 8182, Université Paris SUD - Paris Saclay, Orsay, France | 'Den — Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, F-91191, Gif sur Yvette, France, France | 'University Of Southern-Brittany, Lorient, France, ² EDF-R&D, Chatou, France |
| | SEM/EBSD TENSILE TESTING OF HYDRO- GEN-CHARGED AUSTENITIC STEEL WITH ULTRA-FINE GRAINS | HOT CORROSION BEHAVIOR OF HVOF CONICTALY(HF) COATING ON NI-BASED SUPERALLOYS | | HYDROGEN SOLUBILITY IN WELDING FLUXES FOR ADVANCED HIGH STRENGTH STEELS |
| 12.40 | <u>Arnaud Macadre</u> ¹ , Toshihiro Tsuchiyama ^{1,2} , Setsuo Takaki ^{1,2} | <u>Pimin Zhang</u> ¹, Dr Ru Lin Peng¹, Dr Xin-Hai Li², Dr Sten Johansson¹ | | Ph.D Sung Hoon Chung¹. Professor Il Sohn¹ |
| | ¹International Institute For Carbon-neutral Energy Research, Japan, ³Kyushu University. | Department of Management and Engineering, Linköping University, Linköping, Sweden, Siemens Industrial Turbomachinery AB, Finspång, Sweden | | 'Yonsei University. Seoul. Korea |



| Symposium | D1 | D2 | D4 | D9 |
|---------------|---|---|---|---|
| Room | Artist Cafe/M1 | Museum Hall /M2 | Library Hall/M2 | Maurice Saltiel Hall I/M2 |
| Session Title | NANOSTRUCTURES | Tomography, Imaging & Diffraction | Micro/nano-mechanics of interfaces | Structural materials for GenIV prototypes |
| Chairperson | Artur Braun & Biao Cai | Thomas Walther | Gilles Patriarche & Christophe Pinna | K. Nilsson |
| | KEYNOTE/INVITED IN-SITU SMALL ANGLE X-RAY SCATTERING CHARACTERIZATION OF NANOPOROUS MATERIALS FOR ACTUATION AND ENERGY APPLICATIONS | KEYNOTE/INVITED IMAGING SOFT MATTER IN 2D AND IN 3D | HIGHLIGHT LOCALLY MEASURING THE ADHESION OF Inp MEMBRANES DIRECTLY BONDED ON SILICON | KEYNOTE/INVITED COMPATIBILITY OF STEEL WITH HEAVY LIQUID METALS-CORROSION MECHANISM AND ADVANCED MITIGATION STRATEGIES BASED ON MICROSTRUC- TURAL CHARACTERISATION EXAMINATIONS |
| 11.00 | | | Dr Gilles Patriarche ¹ , Dr Konstantinos Pantzas ¹ , Dr Eric Le Bourhis ² , Gregoire Beaudoin ¹ , Dr Anne Talneau ¹ | |
| | Prof. Dr. Oskar Paris¹ | Prof Gustaaf Van Tendeloo 1.2, Prof Sara Bals¹ | 'Centre de Nanosciences et de Nanotechnologies (C2N), Marcoussis, France ² Institut P'- CNRS / Université de Poitiers, Poitiers, France | Dr. Alfons Weisenburger ¹ |
| | ¹ Montanuniversitaet Leoben, Leoben, Austria | ¹ EMAT, University of Antwerp, Antwerp, Belgium, ² Wuhan University of Technology, Wuhan, China | INDENTATION AND SCRATCH INDUCED DELAMINA- TION OF SILICON NITRIDE FILMS WITH STRESSED OVERLAYERS FOR INTERFACIAL ADHESION MEASUREMENTS | 'Karlsruhe Institute Of Technology. Eggensten-Leopoldshafen, Germany |
| 11.20 | | | Andreas Kleinbichler ^{1,2} . Priv. Doz. Dr. Megan Cordill ² , Dr Johannes Zechner ¹ | |
| | | | ''Kompetenzzentrum Automobil- Und Industrieelek- tronik Gmbh, Villach, Austria, 'Erich Schmid Institute for Material Science, Austrian Academy of Sciences and Dept. Material Physics, Leoben, Austria | |
| | CUBIC? NO, THANKS! | HOW DOES TOMOGRAPHY IN THE MICRO, NANO AND ATOMIC SCALE HELP TO UNDERSTAND 3D MICRO- STRUCTURE FORMATION AND PROPERTIES? | A MULTISCALE ANALYSIS OF INTERFACES IN 3D PRINTED COMPOSITES | OXIDATION OF STEELS IN STAGNANT Pb |
| 11.40 | Dr Antonio Cervellino*, Federica Bertolotti², 8, Dmitry N. Dirin³4*, Maria Ibāñez³,⁴, Frank Krumeich³, Ruggero Frison³, 6, Oleksandr Voznyy7, Edward H. Sargent7, Maksym V. Kovalenko³4, Antonella Guagliardi³, Norberto Masciocchi² | Prof.DrIng. Frank Mücklich ¹ , Michael Engstler ¹ , Jeni Barrirero ¹ , Anastasia Kruglova ¹ | Ms. Laura Zorzetto ¹ , Assistant Professor Francesco Briatico Vangosa ² , Professor Marta Rink ² , Assistant Professor Luca Andena ² , <u>Assistant Professor Davide</u> <u>Ruffoni</u> ¹ | Dr. Massimo Emilio Angiolini ¹ , Dr. Pietro Agostini ¹ , Dr. Serena Bassini ¹ , Dr. Fabio Fabbri ¹ , Dr. Elena Mac- erata ² , Dr. Stefano Matteo Cervino ² , Dr. Mario Mariani ² |
| | Paul Scherrer Institut, Villigen, Switzerland, *Università dell'Insubria & To Sca. Lab, Como, Italy, *ETH Zurich, Zurich, Switzerland, *EMPA, Düben- dorf, Switzerland, *University of Zurich, Zurich, Switzerland, *CNR-IC & To Sca. Lab, Como, Italy, *University of Toronto, Cironoto, Canada, *Aarhus University, Aarhus, Denmark | 'Saarland University, Saarbrücken, Germany | ¹ University of Liège, Liège, Belgium, ² Politecnico di Milano, Milan, Italy | 'Department for Fusian and Technologies for Nuclear Safety and Security, ENEA www.enea.it, Rome, 'Nuclear Engineering Division, Department of Energy, Politecnico di Milano, Milano, |
| | X-RAY NANO-DIFFRACTION ANALYSIS OF 3D STRAIN STATE IN CORE-SHELL SEMICONDUCTOR NANOWIRES | QUANTITATIVE ANALYSIS OF NANOPARTICLE ASSEMBLIES IN 3D | MECHANICAL BEHAVIOR OF FUNCTIONAL THIN FILMS UNDER CONTROLLED BIAXIAL LOADING | SELECTION AND QUALIFICATION OF CANDIDATE MATERIALS FOR REACTOR SYSTEMS WITH HEAVY LIQUID METAL COOLANTS |
| 12.00 | Prof. Dr. Ultrich Pietsch ¹ . Ali AlHassan ¹ . Arman Davtyan ¹ . Dr. Ryan Lewis ² . Hanno Küppers ² . Dr. Lutz Geelhaar ² | Dr. Thomas Attantzis', Mr. Daniele Zanaga', Dr. Ana Sánchez-Iglesias², Dr. Marek Grzelczak³³, Prof. Luis M. Liz-Marzán²³, Prof. Gustaaf Van Tendeloo', Prof. Sara Bals¹ | Nicolas POUVREAU ¹ , Dr Dominique THIAUDIERE ¹ , Eric LE BOURHIS ² , Philippe GOUDEAU ³ , Pierre Olivier RENAULT ³ , Raphaelle GUILLOU ³ , Pierre GODARD ³ , Cristian MOCUTA ¹ | Erich Stergar ¹ , P. Marmy ¹ , X. Gong ¹ , S. Gavrilov ¹ |
| | ¹ Department of Physics, University of Siegen, Siegen, Germany, ² Paul-Drude-Institut für Festkörperelektron- ik, Berlin, Germany | ¹ EMAT, University of Antwerp, Antwerp, Belgium, ² Bionanoplasmonics Laboratory, CIC biomaGUNE, San Sebastián, Spain, ³ Ikerbasque, Basque Foun- dation for Science, Bilbao, Spain | 'Synchrotron Soleil. France, ² Université de Poitiers, FRANCE, ² CEA Saclay, FRANCE | 'SCK*CEN, Mol. Belgium |
| | LABORATORY PRE-SCREENING OF PROCESSES AT THE NANOSCALE FOR DEDICATED SYNCHROTRON IN-SITU SAXS/GISAXS EXPERIMENTS | ACCURATE STRUCTURE REFINEMENT OF EPITAXIAL THIN FILMS USING 3D ELECTRON DIFFRACTION DATA | FE SIMULATION OF INTERFACIAL DELAMINA- TION BETWEEN SIO, THIN FILM AND POLYMERIC SUBSTRATE | RELIABILITY UNDER MONOTONIC AND CYCLIC LOADING OF THE T91 STEEL DEFORMED IN LEAD BISMUTH EUTECTIC: EFFECT OF OXYGEN CONCEN- TRATION |
| 12.20 | Dr. Matej Jergel ¹ , Dr. Karol Vegso ² , Dr. Martin Hodas ³ , Mgr. Peter Nádaždy ¹ , Dr. Peter Šiffalovič ¹ , Dr. Vojtech Nádaždy ¹ , Dr. Eva Majková ¹ | PhD Gwladys Steciuk ¹ , Dr. Philippe Boullay ² , PHD Lukas Palatinus ¹ , MC Adrian David ² , PHD Helene Rotella ² , CR Olivier Copie ² , DR Wilfrid Prellier ² | Caroline Ho ^{1,2} , Olivier Dalverny ¹ , Amèvi Tongne ¹ , Joel Alexis ¹ , Anita Dehoux ² , Sébastien Chatel ² , Loic Lacroix ¹ , Bruce Faure ² | Dr Ingrid Proriol Serre ¹ , Carta Carté ¹ , Pr Jean-Bernard Vogt ¹ |
| | "Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia," 2 Japan Synchrotron Radia- tion Research Institute, Hyogo, Japan," 3 Institute of Applied Physics, University of Tubingen, Tubingen, Germany | 'Institute Of Physics Of The Czech Academy Of Sciences, Prague 6, Czech Republic, ² CRISMAT Laboratory UMR6508, Caen, FRANCE | ¹ Laboratoire Génie de Production ENIT-INP, Tarbes, France, ² Essilor International R&D, Créteil, France | 'Unité Matériaux Et Transformations - UMR Université Lille 'ICNRS/INRA/ENSCL, Lille University - 59655 Villeneuve d'Ascq ,France |
| | MONITORING TIO, CRYSTALLIZATION KINETICS USING SYNCHROTRON RADIATION DIFFRACTION | ORIGIN OF THE MODULATED SUPERSTRUCTURE OF THE Ce $_{10}W_{2}O_{21}$ Lanthanide Tungstate by electron crystallography | INDICATING COATINGS FOR CFRP IN AERONAUTIC | IRRADIATION EFFECTS ON COMPATIBILITY OF STRUCTURAL MATERIALS WITH LEAD-BISMUTH EUTECTIC |
| 12.40 | Dr Hani Albetran ¹² , Professor Brian O'Connor ¹ , Professor It-Meng (Jim) Low ¹ | MSc Loïc Patout ¹ , PhD Thomas Neisius ² , PhD Andrea P. C. Campos ³ , Christian Dominici ² , PhD Claude Alfonso ¹ , PhD Ahmed Charaï ¹ | Prof. Eric Le Bourhis ¹ , Dr. Sophie Senani ² , Dr. Laurence Rozes ³ , Mr. Quentin Morelle ³ , Dr. Manuel Gaudon ⁴ , Dr. Etienne Duguet ⁴ , Dr. Silvere Barut ² , Dr. Stéphane Guinard ² , Dr. Fabienne Touchard ⁴ , Dr. Jean-François Letard ⁵ , Dr. Pierre-Jean Lathierre6 | Dr. Yong Dai ¹ |
| | 'Curtin University, Perth, Australia, ² Imam Abdulrah- man Alfaisal University, Dammam, Saudi Arabia | ¹Im2np-cnrs, Aix-Marseille Université, Faculté des Sciences, Campus de Saint-Jérôme, F-13397 Marseille, ²CP2M, Aix-Marseille Université, Faculté des Sciences, Campus de Saint-Jérôme, F-13397 Marseille | ¹ Inst P', U. Poitiers, Poitiers, France, ² Airbus Group Innovations, Suresnes, France, ² UPMC – LCMCP, Paris, France, ³ CIMCB U. Bordeaux, Bordeaux, France, ⁵ OliKrom, Pessac, France, ⁴ MAPAERO, Pamiers, France | 'Paul Scherrer Institut. Villigen, Switzerland |



| Symposium | AT ZUI/ | E2 E3 | | |
|---------------|---|--|--|--|
| Room | CR II Hall/M2 | CR III Hall/M2 | Rehearsal Room 5.17/M1 | |
| Session Title | SOFC | Redox flow batteries / Li anodes | Photocatalysis | |
| Chairperson | Peter Pfeifer & Jean-Yves Sanchez | P. Bruce | Jianwu Sun | |
| | KEYNOTE/INVITED INVESTIGATION ON SOFC CATHODIC REACTION BY USING PATTERNED THIN FILM MODEL ELECTRODE | KEYNOTE/INVITED PHYSICAL CHEMISTRY AND TRANSPORT IN MATERIALS FOR REDOX FLOW BATTERIES | KEYNOTE/INVITED ARTIFICIAL PHOTOSYNTHESIS VIA SOLAR LIGHT DRIVEN CO2 REDUCTION INTO METHANOL | |
| 11.00 | Mr. Koji Amezawa ¹ , Mr. Yoshinobu Fujimaki ¹ , Mr. Keita Mizuno ¹ , Mr. Yuta Kimura ¹ , Mr. Takashi Nakamura ¹ , Mr. Kiyofumu Nitta ² , Ms. Yasuko Terada ² , Mr. Keiji Yashiro ¹ , Mr. Fumitada Iguchi ¹ , | Dr. Thomas Zawodzinski ¹² , Dr. Jing Peng ¹ , Dr. Gabriel Goenaga ¹ , Dr. Zhijiang Tang ² , Dr. Jamie Lawton ¹ , Dr. Che-Nan Sun ³ | Mr. Myung Jong Kang ¹ , Dr. Chang Woo Kim ¹ , <u>Dr. Prof. Young Soo Kang</u> ¹ | |
| 11.20 | Mr. Hiroo Yugamii [*] , Mr. Tatsuya Kawada [†] - - - [†] Tohoku University, Sendai, Japan, ² JASRI, Sayo, Hyogo, Japan | ¹ University of Tennessee-Knoxville, Knoxville, United States, ² Oak Ridge National Lab, ³ Electrosynthesis Co., Buffalo, USA | ¹ Korea Center for Artificial Photosynthesis, Department of Chemistry, Sogang University, Seoul, South Korea | |
| | OPERANDO STUDY OF CERIA BASED SOLID OXIDE ELECTROCHEMICAL CELLS | ELECTROCHEMICAL CHARACTERIZATION OF ELECTROSPUN URCHIN-LIKE V203 -CNF COMPOSITE NANOSTRUCTURE FOR VANADIUM REDOX FLOW BATTERY APPLICATION | PHOTOCATALYTIC PROPERTIES OF TiO2 THIN FILMS DOPED WITH NOBLE METALS (Ag. Au, Pd and Pt) | |
| 11.40 | Dr. Catherine Dejoie ¹ , Dr. Fabiano Bernardi ² , Dr. Yi Yu ^{3,4} , Dr. Nobumichi Tamura ³ , Dr. Martin Kunz ³ , Dr. Matthew Marcus ³ , Dr. Bryan Eichhorn ⁴ , Dr. Zhi Liu ^{3,5} | Alessandra Di Blasi ¹ , Concetta Busacca ¹ , Orazio Di Blasi ¹ , Nicola Briguglio ¹ , Marco Ferraro ¹ , Vincenzo Antonucci ¹ | <u>Dr Maria Kandyla</u> ¹ . Cherif Moslah ² . Dr Muhammad Islam ³ . Georgia Petropoulou ¹ . Dr George Mousdis ¹ . Dr Mohamed Ksibi ² | |
| | 'ESRF - The European Synchrotron, Grenoble, France, 'Instituto de Física, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil, 'Advanced Light Source, Lawrence Berkeley National Lab, Berkeley, USA, '1Department of Chemistry and Biochemistry, Uni- versity of Maryland, College Park, USA, 'School of Physical Science and Technology, Shanghai Tech University, Shanghai, China | ¹Cnr Itae, Messina, Italia | ¹ National Hellenic Research Foundation, Athens, Greece, ² University of Sfax, Sfax, Tunisia, ³ University of Tsukuba, Ibaraki, Japan | |
| | DESIGN OF HIGH FUNCTIONAL INTERFACE IN ANODE OF IT-SOFC | INFLUENCE OF CARBON NANO-PARTICLE PHYSICOCHEMICAL PROPERTIES ON VANADIUM REDOX REACTIONS KINETICS | SURFACE AREA VS. PHOTOELECTROCATALYTIC ACTIVITY OF HIGHLY ORDERED TIO2 NANOTUBES. APPLICATION IN A SOLID-STATE PHOTOELECTROCHEMICAL CELL FOR WATER SPLITTING | |
| 12.00 | Dr. Toshiyuki Mori ¹ , Dr Andrii REDNYK ¹ , Mr Akira Suzuki ¹ , Dr Takayoshi Tanji ² , Dr Shigeharu Ito ¹ , Dr Fei Ye ³ | M.Sc. Eugenio Rovera¹, Ph.D. Francesco Fumagalli¹, Ph.D. Giorgio Nava¹, Ph.D. Matteo Zago², Ph.D. Andrea Casalegno², Ph.D. Fabio Di Fonzo¹ | Mr. Christian Fleischer ¹ , Dr. Athanasios Chatzitakis ¹ , Dr. Mathieu Grandcolas ² , Dr. Sen Mei ² , Prof. Truls Norby ¹ | |
| | 'National Institute for Materials Science, Tsukuba, Japan, 'Nagoya University, Nagoya, Japan, 'Dalian University of Technology, Dalian, China | 'CNST@Polimi, Milano, Italy, 'Politecnico di Milano, Milano, Italy | ¹ University Of Oslo, Department Of Chemistry, Oslo, Norway, ² SINTEF Materials and Chemistry, Oslo, Norway | |
| | HIGHLIGHT OXYGEN EXCHANGE KINETICS AND LONG-TERM STABILITY OF INTERMEDIATE TEMPERATURE SOLID OXIDE FUEL CELL CATHODES | MICROSPHERES GRANULATED WITH MIXTURE OF SIOX NANOPARTICLES AND NANOWIRES FOR LI-ION BATTERY'S ANODE | TAILORING SURFACE OF BIVO4 PHOTOANODE FOR WATER SPLITTING | |
| 12.20 | <u>Dr. Edith Bucher</u> ¹ , DiptIng. Christian Berger ¹ , Prof. Dr. Werner Sitte ¹ | <u>Dr Boyun Jang</u> ', Dr Joonsoo Kim¹ | Mrs. Mahsa Barzgar Vishlaghi ¹² , Mr. Abdullah Kahraman ¹² , Mrs. Sinem Apaydin ¹² , Dr. Shamsa Munir ¹² , Dr. Sarp Kaya ^{1,23} | |
| | ¹ Montanuniversidaet Leoben, Chair of Physical Chemistry, Leoben, Austria | 'Korea Institute Of Energy Research, Daejeon, South Korea | ¹ Materials science and Engineering Department. Koc University, Istanbul, Turkey, ² Koc University TUPRAS Energy Center, Istanbul, Turkey, ³ Chemistry Department. Koç University, Istanbul, Turkey | |
| | MANUFACTURE OF 02-/H+ CERAMIC-BASED CELLS: IMPROVEMENT THROUGH WET CHEMICAL ROUTES AND INFILTRATION | LI-ION BATTERIES:THERMODYNAMICS OF INTERMETALLIC ANODE MATERIALS SYSTEMS | CARBON NITRIDE GROWTH ON ZnO ARCHITECTURES FOR ENHANCED PHOTOELECTROCHEMICAL WATER SPLITTING APPLICATION | |
| 12.40 | Dr. Julian Dailly ¹ , Dr. Mathieu Marrony ¹ | MSc Alexander Beutl ¹ , Dr. Siegfried Fürtauer ¹ , Dr. Dajjan Li ² , Dr. Damian Cupid ² , <u>Univ.Prof. Dr. Hans Flandorfer</u> ¹ | <u>Špela Hajduk</u> ¹ | |
| | [†] European Institute For Energy Research, Karlsruhe, Germany | 'University of Vienna, Dep. of Inorganic Chemistry - Functional Materials, Wien, Austria, 'Karlsruhe Institute of Technology, Institute for Applied Materials – Applied Materials Physics (IAM-AWP), Karlsruhe, Deutschland | ¹ National Institute Of Chemistry, Ljubljana, Slovenia | |



| | A1 2017 | | FINAL PROGRAM/IDESDAT/AMZ |
|---------------|--|---|---|
| Symposium | F1 | H1 | H2 |
| Room | 3-20/M1 | I-16/M1 | Conference Room 2/M1 |
| Session Title | Calcium Phosphates in Tissue Engineering | Critical Magnetic Materials II | Metals Recovery and Production I |
| Chairperson | Sonia Fiorilli | Roderick Eggert | B. Mishra, Nlebedim Ikenna |
| | PRE-OSTEOBLAST AND ENDOTHELIAL CELL RESPONSE TO 3D SILICON SUBSTITUTED HYDROXYAPATITE SCAFFOLDS TREATED AT DIFFERENT TEMPERATURES WITH ADSORBED VEGF | KEYNOTE/INVITED RARE EARTH MAGNETIC MATERIALS FOR ENERGY APPLICATIONS | MATERIALS RECOVERY AND REGENERATION FROM SPENT LITHIUM-ION BATTERIES USING PHYSIOCHEMICAL ACTIVATION APPROACHES |
| 11.00 | Miss Natividad Gómez-Cerezo ^{1,2} , Laura Casarrubios³, Daniel Fernán- dez-Villa³, Dr Sandra Sánchez-Salcedo ^{1,2} , Dr. Maria Concepcion Serrano⁴, Dr Maria Jose Feito³, Dr Daniel Arcos ^{1,2} , Prof. Dr. Maria Vallet-Regi ^{1,2} , Prof. Dr. Maria Teresa Portolés³ | | Prof. Zhi Sun¹, Xiao Lin¹, Hongbin Cao¹, Yi Zhang¹ |
| | ¹ Department of Inorganic and Bioinorganic Chemistry, Universidad Complutense, Haspital 12 de Octubre, Madrid, Spain, ² CIBER-BBN, Madrid, Spain, ³ Biochemistry and Molecular Department Universidad Complutense de Madrid, IdISSC, Madrid, Spain, ⁴ Hospital Nacional de Parapléjicos, Servicio de Salud de Castilla-La Mancha, Toledo, Spain | <u>Dr. Matthias Katter</u> ¹ | 'Institute Of Process Engineering, Chinese Academy Of Sciences, Beijing, China |
| | EXOGENOUS MINERALIZATION OF DENTAL HARD TISSUES USING IRON DOPED BIOMATERIALS AND FEMTOSECOND LASERS | | THERMODYNAMIC CHARACTERIZATION OF MOLTEN FLUORIDE-BASED FLUX FOR THE SUSTAINABLE PRODUCTION OF MAGNESIUM THROUGH SOLID OXIDE MEMBRANE (SOM) PROCESS |
| 11.20 | Dr Antonios Anastasiou¹, Dr S. Strafford⁴, Dr C.L. Thomson², Dr S.A. Hussain²², Dr T.J. Edwards², Dr P.M. Azpiazu², Dr M. Malinowski⁴, Dr C.T.A Brown², Dr M.N Routledge², Dr A.P. Brown¹, Prof. M.S. Duggal⁴, Prof. A. Jha | ¹ Vacuumschmelze Gmbh & Co. KG, Hanau, Germany | Ms. Yumin Lee ¹ , Dr. Jae Gyo Yang ² , Prof. Joo Hyun Park ¹ |
| | ¹ School of Chemical and Process Engineering, University of Leeds, Leeds, United Kingdom, ⁵ SUPA, School of Physics and Astronomy, University of St Andrews, St Andrews, United Kingdom, ³ Cambridge Graphene Centre, Engineering Department, University of Cambridge, Cambridge, United Kingdom, ⁴ Leeds Dental School, University of Leeds, Leeds, United Kingdom, ⁵ Leeds Institute of Cardiovascular and Metabolic Medicine, Faculty of Medicine and Health, University of Leeds, Leeds, United Kingdom | | ¹ Department of Materials Engineering, Hanyang University, South Korea, ² Institute for Advanced Engineering (IAE), South Korea |
| | ZCAP CERAMICS: THE EFFECTS OF SINTERING TEMPERATURE ON THE VIABILITY OF MRC-5 FIBROBLAST LIKE CELLS IN CULTURE | HIGHLIGHT 3D PRINTING OF HIGH PERFORMANCE NAMED BONDED MAGNETS | CIRCULAR ECONOMY IN PERMANENT MAGNETS VIA MAGNET RECYCLING |
| 11.40 | Professor And Chairman Hamed Benghuzzi ¹ | Dr. Parans Paranthaman ¹ , Dr. Ling Li ¹ , Dr. Orlando Rios ¹ , Dr. Brian Post ¹ , Dr. Vlastimil Kunc ¹ , Dr. I Nlebedim ² , Dr. Thomas Lograsso ² , Mr. Robert Fredette ³ , Dr. John Ormerod ³ , Mr. Aaron Williams ⁴ , Dr. Scott McCall ³ | Dr. Ikenna Nlebedim¹ |
| | 'University Of Mississippi Medical Center, Jackson, USA | Oak Ridge National Laboratory, Oak Ridge, United States, ² Ames Laboratory, Ames, United State, ² Magnet Applications Inc., DuBois, United States, ² Arnold Magnetic Technologies, Rochester, United States, ² Lawrence Livermore National Laboratory, Livermore, United States | 'Ames Laboratory, Us Department Of Energy, Ames, United States |
| | IRON DOPED CALCIUM PHOSPHATE BIOMATERIALS FOR TISSUE ENGINEERING | HIGHLIGHT MAGNETIC PROPERTIES OF MICROSTRUCTURALLY-MODIFIED Pr2Co14B MELT-SPUN RIBBONS | SELECTIVE REDUCTION AND SEPARATION OF EUROPIUM FROM MIXED RARE-EARTH OXIDES FROM WASTE FLUORESCENT LAMP PHOSPHORS |
| 12.00 | Mrs Emaan Alsubhe ¹ , Dr Antonios Anastasiou ¹ , Dr El Mostafa Raif ¹ , prof Animesh Jha ¹ | Dr. Ikenna C. Nlebedim¹, Dr. Mianliang Huang, Dr. Kewei Sun¹, Dr. Lin Zhou¹, Dr. Matthew Kramer¹ | Mark Strauss ¹ , Professor Brajendra Mishra ¹ , Patrick Eduafo ² |
| | 'University Of Leeds, Leeds, United Kingdom | 'Ames Laboratory, Us Department Of Energy, Ames, United States | ¹ Metal Processing Institute, Worcester, United States, ² Colorado School of Mines, Golden, USA |
| | PRODUCTION OF TAILORED CALCIUM PHOSPHATE FOAMS SUITABLE FOR BONE TISSUE ENGINEERING APPLICATIONS | HIGHLIGHT DEVELOPMENT OF MnBi BASED PERMANENT MAGNET | STUDY OF TRIBUTYL PHOSPHATE AS COMPLEXING AGENT FOR Nd ELECTRODEPOSITION FROM IONIC LIQUIDS |
| 12.20 | Dr. Fani Stergioudi ¹ , PhD candidate Emmanouil Smyrnaios ¹ , Dr. Konstantina Viglaki ² , Assistant Professor Maria Chatzinikolaidou ² , Professor Nikolaos Michailidis ¹ | Prof. Jun Cui ¹ , Dr. Matt Kramer ² , Prof. Duane Johnson ¹² | Phd Candidate Evangelos Bourbos¹, Professor Dimitrios Panias¹, Doctor Ioanna Giannopoulou¹, Professor Ioannis Paspaliaris¹ |
| | ¹ Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki. Thessaloniki, Greece, ² Department of Materials Science and Technology, University of Crete, Heraklio, Greece | ¹lowa Sate University, AMES, United States, ²Ames Laboratory, Ames, United States | ¹ National Technical University of Athens, Athens, Greece |
| | | HIGHLIGHT ADVANCED MANUFACTURING OF COMPACT RARE EARTH ELEMENT MAGNETS | PRELIMINARY STUDY OF MAGNESIUM PRODUCTION USING IONIC LIQUIDS |
| 12.40 | | Scott Mccall ¹ , Alex Baker ¹ , Sarah Baker ¹ , Joshua Kuntz ¹ , Jon Lee ¹ , Christine Orme ¹ | Mrs. Maria-loanna Pateli ¹ , Dr. Ioanna Giannopoulou ¹ , Prof. Dimitrios Panias ¹ |
| | | ¹LLNL, Livermore, United States | 'National Technical University Of Athens, Athens, Greece |



| Symposium | A5 | A7 | B1 | B2 |
|---------------|---|--|--|--|
| Room | MOYSA Hall/M2 | I-08/M1 | Conference Room 3/M1 | Aimilios Riadis Hall/M2 |
| Session Title | Nanoparticles: Synthesis and Applications III | Topological Insulators and Thermoelectrics | Advanced High Strength Steels II | Magnesium |
| Chairperson | Richard Curry | Oliver Rader | Elena Pereloma | Eric Nyberg |
| | HIGHLIGHT ENHANCING THE EXPLOITATION OF FUNCTIONAL NANOMATERIALS THROUGH SPATIAL CONFINEMENT | HIGHLIGHT ELECTRO-STRUCTURAL COUPLING EFFECTS IN CHARGED TRANSITION METAL DICHALCOGENIDES | HIGHLIGHT NANOSTRUCTURAL ENGINEERING OF ADVANCED HIGH STRENGTH STEELS | HIGHLIGHT MICROSTRUCTURE EVOLUTION IN A Mg-Zn-Y ALLOY STUDIED BY ANNULAR DARK FIELD ELECTRON MICROSCOPY AFTER DEFORMATION UNDER HIGH PRESSURE TORSION |
| 15.00 | <u>Prof. Miguel A. Correa-Duarte</u> ¹ | <u>Dr. Antonio Cammarata</u> ¹, Prof. Tomas Polcar¹² | Dr Ilana Timokhina¹. Dr Hossein Beladi¹, Prof Peter Hodgson¹. Dr Jiangting Wang¹, Mr Ilias Bikmukha- metov¹ | Dr. Dudekula A. Basha'. Dr. Ryoji Sahara'. Dr. Hidetoshi Somekawa'. Dr. Julian M. Rosalie ¹ . <u>Dr. Alok Singh</u> 1. Dr. Koichi Tsuchiya ¹ |
| | ¹ University of Vigo, Vigo, Spain | ¹ Czech Technical University In Prague, Praha, Czech Republic, ² University of Southampton, Southampton, United Kingdom | [†] Deakin University, Geelong, Australia | 1National Institute For Materials Science, Tsukuba, Japan |
| | ORGANOMETALLIC CHEMICAL LIQUID DEPOSITION: METASTABLE NANOPARTICLES AS PRECURSORS FOR CONFORMAL COPPER LAYERS IN 3D SILICON STRUCTURES | HIGHLIGHT ROLE OF NANOSTRUCTURING IN SILVER ANTIMONY TELLURIDE COMPOUNDS FOR THERMOELECTRIC APPLICATIONS | MICROSTRUCTURE AND TEXTURE EVOLUTION DURING ASYMMETRIC ROLLING OF A HIGH MANGANESE TWIP STEEL. | ACHIEVING FINE GRAIN STRUCTURE AND SUPER- PLASTICITY IN Mg-9AL-12n (AZ91) MAGNESIUM ALLOY USING SHORT FLOW ROLLING PROCESS |
| 15.20 | Dr. Pierre Fau ¹² , Dr. Jérémy Cure ¹ , Dr. Kilian Piettre ¹ , Dr. Alix Sournia-Saquet ¹ , Dr. Yannick Coppel ¹ , Dr. Jérome Esvan ²³ , Dr. Bruno Chaudret ⁴ , Dr. Benoit Riou ⁵ , Dr. Céline Bondoux ⁶ | <u>Dr. Oana Cojocaru-Miredin</u> ¹² , M.Sc. Lamya Abdellaoui ² , Dr. Siyuan Zhang ³ , Prof. Christina Scheu ^{2,3} , Prof. Matthias Wuttig ¹ , Prof. Yaron Amouyat ⁴ | Frederike Berrenberg¹, Dr. Christian Haase², Prof. Dr. rer.nat. Dmitri A Molodov¹, Dr. Jiangting Wang², Dr. Ilana Timokhina³, Dr. Rimma Lapovok³ | Associate Professor Min Zha ¹ . Professor Huiyuan Wang ¹ |
| | ¹ LCC-CNRS, Toulouse, France, ² Université Fédérale de Toulouse, UT3 Paul Sabatier, Toulouse, France, 3CIRI- MAT-ENSIACET, Toulouse, France, ⁴ LPCNO-CNRS-INSA, Toulouse, France, ⁵ STMicroelectronics SAS Tours, Tours, France | ¹ Rwth Aachen University, Aachen, Germany, ² Max-Planck Institut für Eisenforschung GmbH, Düs- seldorf, Germany, ³ Naterials Analytics, RWTH Aachen University, Aachen, Germany, ³ Iechnion-Israel Institute of Technology, Haifa, Israel | Institute of Physical Metallurgy and Metal Physics. RWTH Aachen University. Aachen. Germany. [‡] Departe- ment of Ferrous Metallurgy. RWTH Aachen University. Aachen. Germany. [‡] Institute for Frontier Materials. Deakin University. Geelong. Australia | ¹ Jilin University, Changchun, China |
| | ATOM PROBE TOMOGRAPHY OF FUNCTIONAL NANOMATERIALS | SOLUTION-BASED SYNTHESIS AND PROCESSING OF DOPED Cu-BASED NANOMATERIALS AND THERMO- ELECTRIC GENERATORS | STRENGTHENING OF ADVANCED HIGH STRENGTH STEELS DURING BAKING TREATMENT | CHARACTERIZATION OF PRECIPITATE FREE ZONES IN A Mg-8AL-0.5Zn ALLOY |
| 15.40 | Prof. Dr. Peter Felfer ¹ | Yu Liu', Gregorio García ^{2,3} , Silvia Ortega ¹ , Dr Doris Cadavid ¹ , Pablo Palacios ^{2,4} , Perla Wahnón ^{2,3} , Dr Andreu Cabot ^{1,5} | Univ.Prof. DrIng. Wolfang Bleck, Dr. Sonja Brühl, M. Sc. Sebastian Wesselmecking | Prof. Jayant Jain'. Mr. Anuz Zindal'. Prof. Rajesh Prasad ¹ |
| | ¹ Fau Erlangen, Erlangen, Germany | Catalonia Institute For Energy Research-IREC, Sant Adria de Besos, Spain, ² Instituto de Energia Solar, ETSI Telecomunicación, Universidad Politécnica de Madrid, Madrid, Spain, ² Departa- mento de Tecnologia Fotónica y Bioingeniería, ETSI Telecomunicación, Madrid, Spain, ² Departamento de Física aplicada a las Ingenierías Aeronáutica y Naval. ETSI Aeronáutica y del Espacio, Madrid, Spain, ³ Institució Catalana de Recerca i Estudis Avançats-ICREA, Barcelona, Spain | 'RWTH - Steel Institute, Aachen, Germany | ¹IIT Delhi. Delhi. India |
| | INCORPORATION AND LOCALIZATION OF TRANSITION METAL IONS IN COLLOIDAL Mg(0H)2 AND Ca(0H)2 | KEYNOTE/INVITED THE IMPORTANCE OF 3D TOPOLOGICAL INSULATOR FOR THERMOELECTRIC APPLICATIONS | FATIGUE CRACK INITIATION ASSESSMENT In Al-Containing trip steels | 3D MICROSTRUCTURE CHARACTERIZATION OF Semi-solid State Cast ZK60 Magnesium Alloy |
| 16.00 | <u>Dr Ioana Dorina Vlaicu</u> ¹, Dr Vasile Sergiu Nistor¹, Dr Mariana Stefan¹, PhD Student Alexandra Camelia Joita¹, Dr Valentin Adrian Maraloiu¹, Dr Leona Cristina Nistor¹, Dr Daniela Ghica¹ | | MSc. Mechanical Engineer Petros Christodoulou ¹ , <u>Dr. Alexis Kermanidis</u> ¹ | MSc Stefan Zaunschirm ¹ , Dr. Guillermo Requena ² , Ph.D. Erenition Silva ³ , Dr. Haroldo Pinto ³ , Dr. Johann Kastner ¹ |
| | ¹ National Institute Of Materials Physics, Magurele-Ilfov, Romania | Prof. Dr. Kornelius Nielsch¹. Dr Andy Thomas¹ | 'University Of Thessaly, Volos, Greece | ¹ University Of Applied Sciences Upper Austria, Wels, Austria, ² German Aerospace Center, Cologne, Germany, ³ Universidade de São Paulo, São Paulo, Brazil |
| | DEPOSITION OF CdSe/CdS NANORODS ON CONDUCTING GLASS BY INKJET PRINTING | | LIGHTWEIGHTING OF TRANSFORMATION-INDUCED PLASTICITY STEELS | THE ROLE OF STRAIN LOCALIZATION BANDS IN MECHANICAL BEHAVIOR OF MAGNESIUM ALLOYS |
| 16.20 | <u>Franziska Lübkemann</u> 1, Dr. Ralf Anselmann², Torben Kodanek¹, Dr. Nadja C. Bigall¹ | ¹ Leibniz Institute for Solid State and Materials Research, Dresden, Germany | Dr. Jae-Bok Seol ¹ , Dr. HS Park ² , Dr. CG. Park ¹² | Dr. Konstantinos Baxevanakis¹. Dr. Antonios Kontsos² |
| | ¹ Leibniz Universität Hannover, Hannover, Germany, ² Evonik Resource Efficiency GmbH. Mart. Germany | | "National Institute for Nanomaterials Technology, POSTECH, Pohang, South Korea, ³ Department of Materials Science and Engineering, POSTECH, Pohang, South Korea | "Wolfson School of Mechanical, Electrical and Manufacturing Engineering, Loughborough University, Loughborough, United Kingdom." Mechanical Engi- neering & Mechanics Department, Drexel University, Philadelphia, United States |
| | | | ARREST OF HYDROGEN-ASSISTED SURFACE CRACKING IN hcp-TRIP AUSTENITIC STEELS | CREEP BEHAVIOR OF MRI-153 MAGNESIUM ALLOYS AND THE INFLUENCE OF A HEAT PRE-TREATMENT IN THE MORPHOLOGY OF THE PRECIPITATES DURING CREEP |
| 16.40 | | | Prof. Kaneaki Tsuzaki ¹ | Dr Mónica Preciado ', José Calaf ¹ , Dr Pedro Miguel Bravo¹ |
| | | | ¹Kyushu University, Fukuoka, Japan | 'University Of Burgos, Avda. Cantabria s/n, Burgos, Spain |



| Symposium | B3 | B5 | В6 | B10 |
|---------------|--|---|--|--|
| Room | CR I Hall/M2 | Conference Room 1/M1 | I-11/M1 | Maurice Saltiel Hall II/M2 |
| Session Title | Phase Stability and Equilibria | Oxides | Advanced Composites - Sensing and Healing | Corrosion & Fatigue I |
| Chairperson | P. Tsakiropoulos | Helena Brunckova | Aravind Dasari | Nikolaos Michailidis and Brajendra Mishra |
| | HIGH-TEMPERATURE STABILITY OF PHASES IN BORON CONTAINING Co-Re ALLOYS FOR GAS TURBINE APPLICATIONS | EXPERIMENTAL INVESTIGATION AND THERMODYNAMIC MODELLING OF THE TIO2-MgO-AI203 SYSTEM | A CRITICAL ASSESSMENT OF MULTIFUNCTIONAL AND SELF-HEALING POLYMERS AND COMPOSITES WITH REGARDS TO THEIR POTENTIAL USE IN AERONAUTIC STRUCTURAL APPLICATIONS | HIGHLIGHT WEAR AND CORROSION PROPERTIES OF HIGH INTERSTITIAL STAINLESS STEELS FOR DRILLING APPLICATION IN SOUR GAS WELL ENVIRONMENTS |
| 15.00 | Dr. Pavel Strunz ¹ , Dr. Debashis Mukherji ² , Dr. Přemysl Beran ¹ , Dr. Ralph Gilles ³ , Dr. Michael Hofmann ² , Lukas Karge ³ , Prof. Joachim Rösler ² | Dr. Olga Fabrichnaya', Galina Savinykh', Franz Baerthel', Tilo Zienert1 | Dr Christos Katsiropoulos ¹ , <u>Dipl-Eng Panagiota</u> <u>Polydoropoulou</u> ¹ , Dr Spiros Pantelakis ¹ | Professor Brajendra Mishra¹. Dr. Eunkyung Lee¹, Dr. Walid Khalfaoui² |
| | Nuclear Physics Institute, Řež, Czech Republic, ² Technische Universität Braunschweig, Institut für Werkstoffe, Braunschweig, Germany, ³ Technische Universität München, Heinz Maier-Leibnitz Zentrum (MLZ), Garching, Germany | ¹Technical University Bergakademie Freiberg, Freiberg, Germany | 'University Of Patras-laboratory Of Technology And Strength Of Materials (Itsm), Rion-patras, Greece | ¹ Metal Processing Institute, Worcester, United States, ² Texas A&M University at Qatar, University City, Qatar |
| | NDTIAL+SI SYSTEM: PRECIPITATION OF THE O-TIZAIND PHASE AND INFLUENCE OF THE SI DOPING FOR LOW PRESSURE TURBINE BLADE | EXPERIMENTAL INVESTIGATION OF THE Zr02—Ti02—MgO SYSTEM AND THERMODYNAMIC CALCULATIONS | LIVING MATERIALS: SMART ADAPTIVE MATERIALS WITH SENSING, HEALING AND SELF-SHAPING CAPABILITIES | EFFECT OF ARTIFICIAL AGING ON THE CORRO- SION-INDUCED HYDROGEN TRAPPING IN ALUMINUM ALLOY 2024-T3 |
| 15.20 | Ms. Laurence Sikorav1. Pr. Philippe Vermaut ²³ , Mme Zhao Huvelin ¹ , Mme Anne Denquin ¹ | <u>Dipling. Ivan Saenko</u> ', Ph.D. Olga Fabrichnaya' | <u>Dr Eleonora D'Elia¹</u> , Miss Hanae Said¹, Prof Eduardo Saiz¹ | <u>Dr Helen Kamoutsi</u> ', Panagiotis Floratos', Charilaos Karantonidis', Dr Gregory Haidemenopoulos' |
| | ONERA- The French Aerospace Lab. Châtillon. France. *PSL Research University, Chimie ParisTech - CNRS, Institut de Recherche de Chimie Paris, Paris, France. *Sorbonne Universités, UPMC Univ Paris 06, UFR926, Paris, France | ¹ Institute of Materials science. TU Bergakademie Freiberg, Freiberg, Germany | 'Imperial College London, London, United Kingdom | ¹ University of Thessaly, Volos, Greece |
| | PHASE EQUILIBRIA IN THE Ge-Nb-Si PHASE DIAGRAM | HYDRATION-INDUCED SPIN-GLASS STATE IN A FRUSTRATED Na-Mn-O TRIANGULAR LATTICE | MECHANICAL PERFORMANCE AND ULTRASONIC INSPECTION OF AN IMPACTED SKIN-STIFFENED COMPOSITE IMPLEMENTED WITH A SELF-HEALING FUNCTIONALITY | MORE EVIDENCE ON HYDROGEN EMBRITTLEMENT OF 2024-T3 AERONAUTICAL ALUMINUM ALLOY |
| | Dr Claire Utton ¹ , Dr Ioannis Papadimitriou ² , Dr Hajime Kinoshita ¹ , <u>Professor Panos Tsakiropoulos</u> ¹ | Dr Ioanna Bakaimi ¹² , Dr Rosaria Brescia ² , Professor Craig M. Brown ⁴⁵ , Dr Alexander Tsirtin ⁴ , Professor Mark A. Green ² , Professor Alexandros Lappas ³ | Mrs. Xenia Tsilimigkra ¹ , Mrs Athanasios Kolrotsos ¹ , Dr. Stavros Tsantzalis ¹ , Dr. George Sotiriadis ¹ , Profes- sor Vassilis Kostopoulos ¹ , Dr. Sonia Florez ² , Mr. Anthony Bosman ³ | Prof. Spiros Pantelakis ¹ , Prof. Nikos Michailidis ² , <u>Dr. Apostolos Chamos</u> ¹ , Mrs. Marina Vasco ¹ |
| 15.40 | ¹ University Of Sheffield, United Kingdom, ² University of Warwick, United Kingdom | Institute of Electronic Structure and Laser. Foundation for Research and Technology-Hellas. Vassilika Vouton 71110 Greece. IDepartment of Physics. University of Grete. Voutes 71003 Greece. 3Manochemistry Department. Istituto Italiano di Tecnologia. Via Morego 30 Italy. *NIST Center for Neutron Research. 100 Bureau Drive. Gaithersburg USA. *Department of Chemical and Biomolecular Engineering. University of Delaware. Newark USA. *Experimental Physics VI. Center for Electronic Correlations and Magnetism. Institute of Physics. University of Augsburg. 86135. Germany. *School of Physical Sciences. University of Kent. Canterbury. United Kingdom | Department of Mechanical Engineering & Aero- nautics, University of Patras, Patras, University Campus GR 265 00 Patras, Greece, Industry and Transport Unit, Tecnalia, Parque Tecnológico de San Sebastián, Paseo Mikeletegi, 2, E-20009 San Sebastian, Spain, 'SupraPolix BV, Horsten 1,5612 AX, Eindhoven, The Netherlands | ¹ University Of Patras, Patras, Greece, ² Aristotle University of Thessaloniki, Thessaloniki, Greece |
| | EFFECT OF COOLING RATE ON MICROSTRUCTURE EVOLUTION OF TI-45AI-8.5Nb-0.2W-0.2B-0.02Y ALLOY DURING MULTI-STEP HEAT TREATMENT | EXTERNAL HEALING OF CRACKS IN CEMENT-BASED MORTARS | STRUCTURAL HEALTH MONITORING OF GLASS FIBRE METAL HYBRID LAMINATES | THE EFFECT OF PRE-STRAINING ON THE CORROSION BEHAVIOUR OF 2024 AND 2198 ALUMINUM ALLOYS |
| 16.00 | Ph D Fengming Qiang ¹ , Pro Hongchao Kou ¹ , Pro Jinshan Li ¹ | Associate Professor Maria Stefanidou', PhD Student Eirini-Chrysanthi Tsardaka', PhD Student Fotini Kesikidou', Associate Professor Eleni Pavlidou', Dr Spyridon Kassavetis' | Prof. Dr. Bodo Fiedler¹, M.Sc. Björn Bosbach¹, B.Sc. Ohle Christoph¹ | PhD Student Christina Margarita Charalampidou¹. Stavros Kourkoulis², Alexandra Karanika³. Assistant Professor Nikolaos D. Alexopoulos¹ |
| | 'State Key Laboratory of Solidification Processing Northwestern Polytechnical University, Xi'an, China | ¹Aristotle Univeristy Of Thessaloniki. Thessaloniki, Greece | 1Hamburg University Of Technology, Hamburg, Germany | University Of Aegean, Chios, Greece, ¹ National Technical University of Athens, Athens, Greece, ³ Hellenic Aerospace Industry S.A., Athens, Greece |
| | ASSESSMENT OF EUTECTIC TROUGH AND SOLIDIFICATION PATHS IN NIAL-Cr-W SYSTEM | | EFFECT OF GEOMETRICAL IMPERFECTIONS IN THE ELASTIC-PLASTIC FAILURE OF LATTICE MATERIALS | CORROSION PERFORMANCE OF STAINLESS STEEL CONCRETE REINFORCEMENT IN ACID RAIN SIMULATING ENVIRONMENTS USING FLY ASH AS CORROSION INHIBITOR |
| 16.20 | Dr. Srdjan Milenkovic¹, Dr. Arcadio Varona Caballero¹ | | Mr Bhapawin Boonkongchuen¹, Mr Chin Kerh Lim1, Dr William Ronan², <u>Dr Eral Bele</u> ¹ | Sofia Tsouti ¹ , Angeliki Lekatou ¹ , Spyros Kleftakis ¹ , Alexandros Karantzalis ¹ |
| | ¹Imdea Material Institute, Madrid, Spain | | ¹ University College London, Department Of Mechanical Engineering, London, United Kingdom, ² NUI Galway, Galway, Ireland | ¹ University Of Ioannina, Ioannina, Greece |
| | EXPERIMENTAL STUDY OF CLOSE-PACKED PHASES IN NICKEL-BASED SUPERALLOYS USING DIFFUSION MULTIPLES MANUFACTURED BY ENCAPSULATING CAST | | METAL FOAMS AND ITS APPLICATIONS AS SEISMIC FUSES | IMPACT OF NOTCHES ON THE CORROSION FATIGUE BEHAVIOUR OF STRUCTURAL ALUMINIUM ALLOYS |
| 16.40 | <u>Dipling. Robert Popp</u> ¹ , DrIng. Rainer Völkl ¹ , DrIng. Thomas Göhler ² , ProfIng. Uwe Glatzel+ | | Dr. Hernan Pinto ¹ , Dr Alvaro Pena ¹ | M.Sc. Francisco Duarte de Araújo¹, M.Sc. Tom Engler², Dr Ing, Heinz Kaufmann², Dr Ing, Georg Andersohn², Prof. Dr Ing, Tobias Melz¹, Prof. Dr Ing, Matthias Oechsner² |
| | ¹ University Bayreuth, Bayreuth, Germany, ² MTU Aero Engines AG, Munich, Germany | | 'Pontificia Universidad Católica De Valparaiso, Chile, Avda Brasil 2147, Chile | ¹ Technische Universität Darmstadt, Research Group System Reliability, Adaptive Structures and Machine Acoustics SAM, Darmstadt, Germany, ² Technische Universität Darmstadt, Chair and Institute for Materials Technology (PW, Darmstadt, Germany, ² Fraunhofer Institute for Structural Durability and System Reliability LBF, Darmstadt, Germany |
| | | | | LBF, Darmstadt, Germany |



| Symposium | B11 | C1 | C2 | C6 |
|---------------|--|---|--|---|
| Room | Maurice Saltiel Hall III/M2 | Friends of Music Hall/M1 | Conference Room 4/M1 | I-15/M1 |
| Session Title | Advanced In-Situ Testing and X-Ray-Based Microstructure Analysis | Coatings and thin films 5/6 High-T coatings | Laser cladding and welding | Mechanical Properties and Modelling in Welding |
| Chairperson | M. Garcia Gonzalez | P. Psyllaki, R. Oliveira | Andres-Fabian Lasagni | Christof Sommitsch |
| | APPLICATION OF DIRECT FITTING METHOD TO THE MODIFIED WILLIAMSON-HALL METHOD | HIGHLIGHT FUNCTIONAL COATINGS BY LIQUID FEEDSTOCK PLASMA SPRAYING | EXPERIMENTAL AND NUMERICAL STUDY OF THE MOLTEN POOL SHAPE DURING A COAXIAL LASER CLADDING PROCESS; WITH AND WITHOUT POWDER INJECTION | STRAIN-RATE DEPENDENCY OF SIMULATED WELDING RESIDUAL STRESSES |
| 15.00 | Dr. Setsuo Takaki ¹ , Dr. Fu-ling Jang ¹ , Dr. Daichi Akama ¹ , Dr. Toshihiro Tsuchiyama ¹ | Professor Nicolaie Markocsan | Miss Emna Abouda ¹ , Dr Morgan Dal ¹ , Dr Patrice Peyre ¹ , Dr Pascal Aubry ² , M Cyril Gorny ¹ , Dr Taha Nabil Tarfa ³ | DipL-Ing. Stefanos Gkatzogiannis¹, Prof. DrIng. Peter Knoedel¹. Prof. DrIng. Thomas Ummenhofer¹ |
| | ¹Kyushu University, Fukuoka/ Nishi-ku/ 744 Motooka, Japan | ¹ University West, Trollhättan, Sweden | ¹ Ecole nationale des Arts et Metiers, 151 Boulevard de ('Hôpital, 75013 Paris, France, Paris, France, ² Den – Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS), CEA, Université Paris-Saclay, 91191 Gif sur Yvette, France, Paris, France, ³ Velan Montreal, Montreal H4T 162, Canada, Montreal, Canada | ¹ Kit Steel & Lightweight Structures Research Center For Steel, Timber & Masonry ,Karsrluhe, Germany |
| | DIRECT CORRECTION OF THE ELASTIC ANISOTROPY IN WILLIAMSON-HALL PLOTS FOR COLD WORKED METALS | STRUCTURE, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF Zr-Si-B-(N) NANOFILMS WITH OXIDATION RESISTANCE UP TO 1400°C | STUDY OF THE OPTICAL EMISSION DURING Cu-AL AND AL-AL LASER SPOT WELDING FOR MANUFAC- TURING OF SOLAR HEAT ABSORBERS | NUMERICAL ESTIMATION OF THE INTERMETALLIC LAYER THICKNESS IN ALUMINUM-STEEL WELDING |
| 15.20 | Dr. Fulin Jiang¹, Prof. Setsuo Takaki¹², Dr. Daichi Akama², Prof. Toshihiro Tsuchiyama¹² | Dr. Philipp Kiryukhantsev-korneev ¹ , Margarita Lemesheva ¹ , Dr. Daria Sidorenko ¹ , Dr. Andrey Bondarev ¹ , Prof. Evgeny Levashov ¹ | Dr Panayiotis Siozos', Mr Michalis Andrianakis', Ms Triantafyllia Magana ² , Professor Demetrios Anglos ^{1,3} , Dr Elias Hontzopoulos ² | Zahra Silvayeh ¹ , Dr. Rudolf Vallant ¹ , Prof. Dr. Christof Sommitsch ¹ , Bruno Götzinger ² , Werner Karner ² , Matthias Hartmann ³ |
| | 'Materials Strengthening Science Research Center, Kyushu University, Fukuoka, Japan, ² Department of Materials Science and Engineering, Kyushu University, Fukuoka, Japan | 1National University Of Science And Technology Misis, Moscow, Russian Federation | ¹Institute of Electronic Structure and Laser of the Foun- dation for Research and Technology-Hellas, P.O. Box 1385, 71110, Heraklion, Greece, *PRIME Laser Tech- nology S.A. WOPA Kerateas, P.O. Box 97, 1901 Keratea Attikis, Greece, *Department of Chemistry, University of Crete, P.O. Box 2208, 71003, Heraklion, Greece | Graz University of Technology, Institute of Materials Science, Joining and Forming, Graz, Austria, *Magna Steyr Engineering Austria AG & Co KG and Magna Steyr Fahrzeugtechnik AG & Co KG, Graz, Austria, *Austrian Institute of Technology, Light Metals Technologies Ranshofen GmbH, Ranshofen, Austria |
| | EVALUATION OF DISLOCATION DENSITY IN COLD- WORKED AUSTENITIC STEEL SUS316L | CORROSION MECHANISM IN THERMAL BARRIER COATINGS DURING EXPOSURE TO A GAS MIXTURE CONTAINING SO2 | STUDY OF THE MICROSTRUCTURE AND PROPERTIES OF NICIMOSI HARDFACING ALLOY ELABORATED BY LASER ADDITIVE MANUFACTURING PROCESS | PHASE-FIELD MODELING IN THE NUGGET Zone of FSW of AZ31 Mg Alloy |
| 15.40 | Takuro Masumura ¹² Fulin Jiang ¹ , Setsuo Takaki ¹² Daichi Akama ¹² , Toshihiro Tsuchiyama ¹² | Krishna Praveen Jonnalagadda¹. Xin-Hai Li², Ru Lin Peng¹ | Cecile Blanc', <u>Pascal Aubry</u> ', Mohamed Sennour ² , Fanny Balbaud-Celerier', Hicham Maskro ¹ | Dipl. Eng. Christos Prosgolitis ¹ . Dr Anna Zervaki ¹ |
| | "Department of Materials Science and Engineering, Kyushu University, Japan, 2International Institute for Carbon-Neutral Energy Research, Kyushu University, Japan | ¹ Department of Management and Engineering, Linköping University, Linköping, Sweden, ² Siemens Industrial Turbomachinery AB, Finspäng, Sweden | CEA/SACLAY/DEN-DPC-SEARS. Gif Sur Yvette 91191, France, ³ MINES ParisTech, PSL Research University, MAT-Centre des matériaux. CNRS UMR 7633. BP 87, BP 87-91003 Evry cedex, France | 'University of Thessaly, Laboratory of Materials, Dept. of Mechanical Engineering, Volos, Greece |
| | DEFORMATION MECHANISMS OF MELT-CRYSTAL- LISED POLYMERS STUDIED BY IN-SITU X-RAY LINE PROFILE ANALYSIS AND HIGH RESOLUTION CREEP EXPERIMENTS | SINTERING BEHAVIOUR OF COLUMNAR THERMAL BARRIER COATINGS PRODUCED BY AXIAL SUSPEN- SION PLASMA SPRAYING | LASER CLADDING OF TOOL INSERTS FOR HOT FORMING OF SHEET METALS | PREDICTION OF THE REINFORCEMENT AREA (PRA) AND THE NUMBER OF BEADS (PNB) IN ROBOTIC STEEL ARC WELDING WITH CONSUMABLE WIRE: ANALYTICAL MODELLING AND EXTENSIVE EXPERI- MENTAL VALIDATION |
| 16.00 | <u>Dr. Florian Spieckermann</u> ¹ , Dr. Gerald Polt ² , Harald Wilhelm ^{2,3} , Mohammad Zare Ghomsheh ² , Dr Michael Kerber ^{2,5} , Prof. Dr. Erhard Schaffler ² , Dr. Sigrid Bernstorff ⁴ , Prof. Dr. Michael Zehetbauer ¹ | Phd Student Ashish Ganvir ¹ , Associate Professor Nicolaie Markocsan, Doctor Mohit Gupta, Doctor Fran- tisek Lukac, PhD Student Johanna Ekberg, Professor Robert Vassen | Dr. Josef Domitner ¹ , Christoph Egger ¹ , Nino Müllner ¹ , Mustafa Kičin ² , Prof. Dr. Christof Sommitsch ¹ | Mr Marios Kazasidis' |
| | "Montanuniversität Leoben, Leoben, Austria, "Fakultät für Physik, Universität Wien, Wien, Austria, "Laboratory for Polymer Engineering LKT-TGM, Wien, Austria, "ELETTRA Sincrotrone Tireste, Basovizza, Italy, "Materials Center Leoben, Leoben, Austria | [†] University West, Trollhattan, Sweden, Trollhättan, Sweden | ¹ Graz University of Technology. Institute of Materials Science, Joining and Forming. Research Group Tools & Forming, Graz, Austria. ² Cosma Engineering Europe GmbH, Weikersdorf, Austria | 'National Technical University of Athens. Nea Philadelfia, Greece |
| | FAILURE OBSERVATIONS IN SINTERED STEEL FOAMS FROM THE SUBMICRON TO THE MACRO SCALE | MICROSTRUCTURE OF SELF-HEALING THERMAL BARRIER COATINGS DEPOSITED BY SUSPENSION PLASMA SPRAYING | | NUMERICAL MODELING AND EXPERIMENTAL MEASUREMENTS OF RESIDUAL STRESSES INDUCED BY MULTIPASS WELDING OF HIGH STRENGH STEEL PLATES |
| 16.20 | Ali Can-Kaya I, Dr. Paul Zaslansky ² , Prof.DrIng. Claudia Fleck ¹ | Mr. Victor Carnicer ¹ , Mr. Eugeni Cañas ¹ , <u>Dr. María José Orts</u> ¹ , Dr. Rodrigo Moreno ² , Dr. Maria Dolores Salvador ³ , Dr. Pablo Carpio ³ , Ms. Lucia Navarro ³ , Dr. Enrique Sánchez ¹ | | Mr Constant Ramard ¹² , Pr Philippe Pilvin ² , Dr Denis Carron ² , Dr Florent Bridier ³ |
| | ¹ Technische Universität Berlin, Berlin, Germany, 2Charité - Universitätsmedizin Berlin, Berlin, Germany | Instituto de Tecnología Cerámica (ITC), Universitat Jaume I (UJI), Av.Sos Baynat s/n, 12006, Castellón, Spain, Instituto de Cerámica y Vidrio (ICV), Consejo Superior de Investigaciones Científicas (CSIC), Kelsen 5, E-28049, Madrid, Spain, Instituto de Tecnología de Materiales (ITM), Universitat Politècnica de València (UPV), Camino de Vera, s/n, 46022, Valencia, Spain | | ¹ IRT Jules Verne, Bouguenais, France, ² IRDL – FRE CNRS 3744, Lorient, France, ³ DCNS Research/CESMAN, Bouguenais, France |
| | ANISOTROPIC MECHANICAL BEHAVIOR OF NANO-LAMELLAR PEARLITIC STEEL | HIGHLIGHT REQUIREMENTS FOR HIGH TEMPERATURE MATERIALS AND COATINGS IN FUTURE ENERGY SYSTEMS WITH GROWING CONTRIBUTION OF RENEWABLE ENERGY GENERATION | | QUALITATIVE PREDICTION OF THE RESIDUAL STRESSES IN FRICTION WELDED FULL AND HOLLOW SHAFTS |
| 16.40 | Dr. Pradipta Ghosh ¹ , <u>Oliver Renk</u> ¹ , Dr. Karoline Kormout ¹ , Dr. Ulrich Lienert ² , Prof. Jozef Keckes ¹ , Prof. Reinhard Pippan ¹ | D. Naumenko ¹ , R. Pillai ¹ , A. Chyrkin ¹ , J. Quadakkers ¹ , <u>Prof. Dr., Lorenz Singheiser</u> l | | Christoph Rößler ¹ , Dr. Eng, David Schmicker ² , Eric Heppner ¹ , Markus Körner ³ , Prof. Dr. Eng. Elmar Woschke ¹ |
| | ¹ Erich Schmid Institute of Materials Science, Leoben, Austria, ² Deutsches Elektronen-Synchrotron, Hamburg, Germany | ¹ Institute of Energy and Climate Resaerch (IEK-2) Forschungszentrum Jülich GmbH, Jülich, Germany | | Institute of Mechanics, Faculty of Mechanical Engineering, Otto-von-Guericke-University Magdeburg, Magdeburg, Germany, ² Sampro GmbH, Magdeburg, Germany, ³ Institute of Materials and Joining Technol- ogy, Faculty of Mechanical Engineering, Otto-von-Guer- icke-University Magdeburg |



| | | | D4 | D9 |
|--|--|---|---|--|
| Room | Artist Cafe/M1 | Museum Hall /M2 | Library Hall/M2 | Maurice Saltiel Hall I/M2 |
| Session Title | SPECTROSCOPIES-I | Epitaxial semiconductor heterostructures | Characterisation techniques of material properties across the length scales | Structural materials for GenIV prototypes and Advanced Modelling of Nuclear Structural Materials |
| Chairperson | Ullrich Pietsch and Mehmet Alper Sahiner | Philomela Komninou | Stanisław Kucharski & Eric Le Bourhis | C. Pareige |
| | HIGHLIGHT AS/XES STUDIES OF ADVANCED MATERIALS | HIGHLIGHT EXPERIMENTAL QUANTIFICATION OF THE HAADF CONTRAST USING EDX AND ITS APPLICATIONS TO QCL DESIGN AND FABRICATION | HIGHLIGHT SIZE EFFECT IN INDENTATION TESTS: EXPERIMENTAL AND NUMERICAL INVESTIGATIONS | KEYNOTE/INVITED DESIGN RULES AND ASSESSMENT PROCEDURES FOR NUCLEAR COMPONENTS OPERATING AT HIGH TEMPERATURE |
| 15.00 <u>L</u> | ucia Amidani¹ | <u>Dr Konstantinos Pantzas</u> ¹, Dr Ludovic Largeau¹, Dr Gilles Patriarche¹ | Assoc.Prof. Stanisław Kucharski ¹ , Professor Stanisław Stupkiewicz ¹ , Professor Henryk Petryk ¹ | |
| | Esrf - The European Synchrotron, Grenoble, France | ¹ Cnrs Center for Nanoscience and Nanotechnology, Marcoussis, France | 'Institute of Fundamental Technological Research, Warsaw, Poland | <u>Dr Karl-fredrik Nilsson</u> ! |
| ll II | CHEMICAL AND MORPHOLOGICAL HETEROGENEITY IN ZINC OXIDE THIN FILMS UNDER HUMIDITY REATMENT | ATOMIC RESOLUTION ABERRATION CORRECTED ANNULAR DARK FIELD IMAGING OF GAASBI | A NEW APPROACH OF THE OLIVER AND PHARR MODEL TO FIT THE UNLOADING CURVE FROM INSTRUMENTED INDENTATION TESTING | |
| 15.20 V | Kang Wei Chou ¹ , Stanislas Petrash ² , Hua Jiang ³ , Garth Williams ⁴ , Juergen Thieme ⁴ , Dmytro Nykypanchuk ⁵ , Li i ⁴ , Gwen Wright ⁸ , Fernando Camino ⁵ , Yu-chen Karen Chen-Wiegart ^{3,4} | Dr Thomas Walther ¹ , Dr Faebian Bastiman ¹ , Dr Toshihiro Aoki ²³ | <u>Stephania Kossman</u> ¹² , Thierry Coorevits ² , Alain lost ² , Didier Chicot ⁴ | ¹ European Commission DG-JRC, Petten, Netherlands |
| p S II | Henkel Ibérica S.A., Bellaterra, Spain, ² Henkel Cor- poration, Bridgewater, USA, ² Stony Brook University, Stony Brook, USA, ⁴ National Synchrotron Light Source I, Upton, USA, ³ Center of Functional Materials, Upton, ISA | 1University of Sheffield, Sheffield, United Kingdom, ² Arizona State University, Tempe, USA, ³ University of California, Irvine, USA | ¹ Université Lille 1,FRE 3723 - LML - Laboratoire de Mécanique de Lille, Lille, France, +Arts et Métiers ParisTech, MSMP, Lille, France | |
| | N SITU HARD X-RAY PHOTOEMISSION SPECTROSCOPY If METAL/PMN-PT INTERFACES | HIGHLIGHT BASAL STACKING FAULT DOMAINS AS A SOURCE OF A-TYPE THREADING DISLOCATIONS IN III-NITRIDE EPITAXIAL LAYERS | CURRENT POSSIBILITIES OF STRESS-STRAIN CURVES BY NANOINDENTATION | FLUX EFFECTS ON RADIATION DAMAGE IN ANION-IRRADIATED MODEL Fe-3at. %Ni ALLOY |
| S | <mark>or. Adrian Petraru</mark> ¹, Dr. Erik Kröger², Arndt Quer², Dr. Rohit Soni², Dr. Matthias Kalläne²², Prof. Dr. N A Pertsev ⁴⁵ , Prof. Dr. Hermann Kohlstedt¹, Prof. Dr. Kai Rossnagel² | PhD Julita Smalc-Koziorowska¹. MSc Calliope Bazioti². Dr. Martin Albrecht³. Dr. George Dimitrakopulos² | <u>Philippe Kempe</u> ¹, Dr Jiri Nohava¹, Aurélien Tournier-Fillon¹ | PhD student Lisa Belkacemi [†] , Researcher Estelle Meslin [†] , Researcher Jean Henry [‡] , Researcher Bertrand Radiguet [‡] , Researcher Brigitte Decamps ³ |
| , , , , , , , , , , , , , , , , , , , | Nanoelektronik, Technische Fakultät, Christian-Al- rechts-Universität zu Kiel, Kiel, Germany, *Institut für xperimentelle und Angewandte Physik, Christian-Al- rechts-Universität zu Kiel, Kiel, Germany, *Ruprecht- daensel-Labor, Christian-Albrechts-Universität zu Kiel, Kiel, Germany, *Inffe Institute, St. Petersburg Zussia, *Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia, *Department of Physics, Indian Institute of Science Education and Research Berhampur, Berhampur, India | ¹ Institute of High Pressure Physics PAS, Warsaw, Poland, ¹ Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Leibniz Institute for Crystal Growth, Germany | ¹ Anton Paar TriTec, Peseux, Switzerland | ¹ Cea Saclay, Saclay, France, ² GPM, Universite de Rouen, Rouen, France, ³ CSNSM, Universite Paris Sud, Orsay, France |
| | UNDERSTANDING THE ROLE OF CERIUM OXIDE IN H2O2 DISSOCIATION BY HERFD-XANES | STRUCTURAL AND ELECTRONIC CHARACTERIZATION OF III-NITRIDE MATERIAL Scoan | INDENTATION RELAXATION TEST: THEORETICAL AND EXPERIMENTAL ANALYSIS | EFFECT OF NI ON THE DIFFUSION OF RADIATION INDUCED DEFECTS IN Fe-NI ALLOYS |
| S | or, Paola Luches ¹ , F <u>rancesco Benedetti</u> ¹² , Jacopo Stefano Pelli Cresi ¹⁷ , Prof. Sergio Valeri ¹³ , Dr. Lucia umidani ² , Prof. Federico Boscherini ⁴⁵ , Valentina dicolini ⁴ , Prof. Gianluca Malavasi ⁴ | <u>Simona Pace</u> ¹ , Dr Robert J Davies ¹ , Dr Michelle A Moram ¹ | Mr. Paul BARAL ¹ , PhD. Gaylord Guillonneau ¹ , Prof. Guillaume Kermouche ² , Prof. Jean-Michel Bergheau ² , PhD. Jean-Luc Loubet ¹ | <u>Professor Anna Serra</u> ¹, Dr Napoleon Anento¹, Dr Yuri Ösetsky² |
| ' I R I E F I I d e e | Istituto Nanoscienze, Consiglio Nazionale delle Ricerche, Modena, Italy, "Dip. di Scienze Fisiche Informatiche e Matematiche, Liniv. di Modena e Reggio Emilia, Modena, Italy, "ESRF, Grenoble, France, "Dip. di Isica e Astronomia, Università di Bologna, Bologna, Università di Bologna, Bologna, dip," "Istituto Officina dei Materiali, Consiglio Nazionale Itelle Ricerche, Trieste, Italy, "Dip. di Scienze Chimiche Geologiche, Univ. di Modena e Reggio Emilia, Modena, Italy | ¹ Department of Materials, Imperial College London, London, United Kingdom | ¹ Université de Lyon, ECL, LTDS UMR CNRS 5513, Ecully, France. ² Ecole des Mines de Saint Etienne, Centre SMS, LGF UMR 3907, Saint Etienne, France. ² Université de Lyon, ENISE, LTDS UMR CNRS 5513, Saint Etienne, France | [†] Universitat Politecnica De Catalunya, Barcelona, Spain, ² Materiats Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, USA |
| | COMBINED XAS AND XES STUDY OF Mn AND Co Valence and spin states in TBMn1-xCox03 | CUPIB ORDERING IN GAINP LAYERS ASSESSMENT THROUGH ABERRATION-CORRECTED TEM HAADF IMAGES AND SIMULATIONS | IDENTIFICATION AND CONTROL OF SOME FACTORS AFFECTING NANOINDENTATION MEASUREMENTS ON ELASTOMERS | AB-INITIO BASED SEARCH FOR LATE BLOOMING PHASES IN IRON ALLOYS |
| E | <mark>/era Cuartero'</mark> , Sara Lafuerza ¹ , Mauro Rovezzi ¹ , irika Jiménez ² , Joaquin Garcia ² , Javier Blasco ² , Gloria iubías ² | Catalina Coll', Lluis López-Conesa¹, Enrique Barrigón², Laura Barrutia², Ignacio Rey-Stolle², Carlos Algora², Sònia Estradé¹, Francesca Peiró¹ | <u>Clémence Fradet</u> ', Florian Lacroix', Gaëlle Berton', Stéphane Méo', Eric Le Bourhis ² | <u>Dr. Pavel Korzhavy</u> i ¹² , Dr. Oleg Gorbatov ²³ , ArashHosseinzadeh Delandar ³ , Prof. Yuri Gornostyrev ^{2,3} |
| F A d | ESRF - The European Synchrotron, Grenoble, France, 2Instituto de Ciencia de Materiales de kragón, Departamento de Física de la Materia Con- lensada, Zaragoza, Spain, 3 Grenoble Alpes, CEA, NAC-SPINTEC- LETI MINATEC-CAMPUS, CNRS, PINTEC, Grenoble, France | ¹ Laboratory of Electron Nanoscopies (LENS)- MIND/IN2UB, Dept. d'Enginyeries: Electrònica, Universitat de Barcelona, Barcelona, Spain, ² 2. | ¹ LMR/CERMEL, Tours, France, ² Institut P', Poitiers, France | ¹ KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden, ² Institute of Metal Physics, Ural Division R4S, 620107 Ekaterinburg, Russia, 3Institute of Quantum Materials Science, 620041 Ekaterinburg, Russia |
| | | SPONSOR PRESENTATION: NANOMEGAS - PRECES- SION ELECTRON DIFFRACTION APPLICATIONS IN TEM: FROM CRYSTAL STRUCTURE DETERMINATION TO GRIENTATION IMAGING AND STRAIN MAPPING AT NM SCALE | NANOINDENTATION IN YTZ FOR DENTAL APPLICATIONS – PITFALLS AND CONSEQUENCES | FORMATION AND STABILITY OF C15 INTERSTITIAL CLUSTERS IN DILUTE FERRITIC ALLOYS |
| 16.40 | | | Katharina Werbach ¹ , Christian Ebner ¹ , Stefan Hummet ¹ , Ulrich Lohbauer ² , Herwig Peterlik ¹ | Dr Luca Messina ¹ , Dr Mihai Cosmin Marinica ¹ , Dr Maylise Nastar ¹ , Dr Christophe Domain ² , Prof. Charlotte S. Becquart ³ , Prof. Kazuto Arakawa ⁴ |
| | | | ¹ University Of Vienna, Wien, Austria, ² Friedrich-Alexan- der Universität , Erlangen-Nürnberg, Germany | ¹ CEA Saclay, Glf-sur-Yvette, France, ² EDF R&D, Moret- sur-Loing, France, ³ Université de Lille 1, Villeneuve d'Ascq Cedex, France, ⁴ Shimane University, Shimane, Japan |



| LUNUM | AI ZUI/ | FINAL PROGRAM/IUESDAY/PM | | |
|---------------|---|---|---|--|
| Symposium | E1 | E2 | E3 | |
| Room | CR II Hall/M2 | CR III Hall/M2 | Rehearsal Room 5.17/M1 | |
| Session Title | Electrocatalysts | Microbatteries | Thermoelectrics II | |
| Chairperson | Koji Amezawa & Stephen Holdcroft | P. Knauth | Gao Min | |
| | KEYNOTE/INVITED CARBON NANOTUBES BASED HYBRID ELECTROCATALYSTS FOR HYDROGEN EVOLUTION | KEYNOTE/INVITED 30 NANOMATERIALS FOR HIGH PERFORMANCE Li-ion MICROBATTERIES | HIGHLIGHT SILICIDE THERMOELECTRICS FOR ENERGY HARVESTING | |
| 15.00 | | | Dr. Alexander Burkov ¹ | |
| | Mr Olli Sorsa ¹ , Mr Olli Pakkanen ¹ , Mr Mohammad Tavakkoli ¹ , Professor Kari Laasonen ¹ , Professor Albert Nasibulin ² , <u>Professor Tanja Kallio</u> ¹ | Professor Thierry Djenizian ¹ | ¹ loffe Institute, Saint-Petersburg, Russian Federation | |
| | | | INITIATIVE TO BRING 2nd GENERATION OF THERMO-ELECTRIC GENERATORS INTO INDUSTRIAL REALITY (INTEGRAL) | |
| 15.20 | ¹ Aalto University, Espoo, Finland, ² Skolkovo Institute of Science and Technology, Moscow, Russia | ¹Ecole Nationales Supérieure Des Mines de Saint-Etienne, Gardanne, France | Dring. Jean-yves Escabasse ^{1,2} , Mr. Luc Aixala ^{1,2} , Dr. Christelle Navonne ^{1,2} , Dr. Krunoslav Romanjek ^{1,2} , Mr. Jean Leforestier ^{1,2} | |
| | | | ¹ Univ. Grenoble Alpes, Grenoble, France, ² CEA Lilen, Grenoble, France | |
| | ELECTRO-CATALYTIC HOLLOW-FIBER MEMBRANE FOR HYDROGEN EVOLUTION AND FILTRATION OF TREATED WASTEWATER | AN ALL-SOLID-STATE 3D THIN-FILM Li-ion BATTERY FABRICATED ON A SILICON MICROPILLAR ARRAY | HIGHLIGHT PRODUCTION TECHNOLOGY OF THERMOELECTRIC FUNCTIONALIZED SINGLE LEGS ON INDUSTRY-SIZED SCALE FOR WASTE HEAT RECOVERY | |
| 15.40 | Dr. Krishna Katuri ¹ , Dr. Narasimha Bettahalli ¹ , Professor Suzana Nunes ¹ . <u>Associate Professor Pascal Saikaly</u> 1 | Maarten Mees ¹ , Nouha Labeydh ¹² , Brecht Put ¹ , Sebastien Moitzheim ¹² , Alfonso Sepulveda ¹ , Mariadriana Creatore ³ , W. M. M. Kessels ³ , Philippe Vereecken ¹² | <u>Dr. Christian Stiewe</u> ¹ | |
| | ¹ King Abdullah University Of Science And Technology, Saudi Arabia | 'Imec, Leuven, Belgium. =Department of Microbial and Molecular Systems, Centre for Surface Chemistry and Catalysis, KU Leuven – University of Leuven, Leuven, Belgium, +Department of Applied Physics, Eindhoven University of Technology, Eindhoven, The Netherlands | ¹ DLR, Cologne, Germany | |
| | MODELLING LaFe03 FOR IT-SOFC CATHODE APPLICATIONS | NOVEL THIN-FILM SOLID-COMPOSITE ELECTROLYTE FOR 3D LITHIUM-ION MICROBATTERIES BY COMBINING MOLECULAR AND ATOMIC LAYER DEPOSITION | DOPING AS A WAY TO CONTROL THE TYPE OF CONDUCTIVITY IN REGULAR AND NANO-GRAINED THERMOELECTRIC MATERIALS: DENSITY FUNCTIONAL THEORY STUDY | |
| 16.00 | Miss Felicity Taylor ¹ , Dr John Buckeridge ¹ , Prof. Richard Catlow ^{1,2} | Knut Bjarne Gandrud ¹² , Simon Hollevoet ¹² , Kevin Van de Kerckhove ³ , Brecht Put ^{1,4} , M. Creatore ⁴ , W.M.M. Kessels ⁴ , Christophe Detavernier ³ , Philippe Vereecken ¹² | Prof. David Fuks¹, Gennady Komisarchik¹, Maor Kaller¹, Kiril Kirievsky¹, Prof. Yaniv Gelbstein¹ | |
| | ¹ Department of Chemistry, University College London, London, United Kingdom, ² Department of Chemistry, Cardiff University, Cardiff, United Kingdom | 'imec. Kapeldreef 75. B-3001 Leuven. Belgium. 'KU Leuven - University of Leuven. Centre for Surface Chemistry and Catalysis, Celestijnenlaan 200F. B-3001 Leuven. Belgium. 'Department of Solid State Sciences, Ghent University, Krijgslaan 281 51, 9000 Gent. Belgium. 'Department of Applied Physics, Eindhoven University of Technology, 5600 MB Eindhoven, The Netherlands | [†] Ben Gurion University Of The Negev, Beer Sheva, Israel | |
| | ELECTRODEPOSITION OF AMORPHOUS/NANOCRYSTALLINE Ni-Mo ALLOY FOR HYDROGEN EVOLUTION REACTION | LICUPO4 THIN FILM AS CATHODE IN ALL-SOLID-STATE 3D LI-ION BATTERIES | HIGHLIGHT ELECTRONIC BAND STRUCTURE FEATURES IMPROVING THERMOELECTRIC CONVERSION | |
| 16.20 | Mert Manazoğlu', Dr. Gökçe Hapçı Ağaoğlu ', Prof. Dr. Gökhan Orhan' | <u>Dr Florence Vacandio</u> ¹ . Vinsensia ADE SUGIAWATI ¹ . Pr Philippe KNAUTH ¹ , Pr Thierry DJENIZIAN ² | Prof. Janusz Tobola ¹ , Dr Bartłomiej Wiendlocha ¹ , Dr Kamil Kutorasinski ¹ , Prof. Stanisław Kaprzyk ¹ | |
| | 'Istanbul University | 'Madirel, ElMa Team, AIX-MARSEILLE UNIVERSITY, Marseille, France, ² Flexible Electronics Department, Center of Microelectronics in Provence, GARDANNE, France | ¹ AGH University Of Science And Technology. Krakow. POLAND, 30-059 Krakow, Poland | |
| | HIGHLIGHT ADVANCED MATERIALS FOR WATER SPLITTING IN A PEM ELECTROLYSER | | | |
| 16.40 | Stefania Siracusano¹, Vincenzo Baglio¹, Nicholas Van Dijk², Luca Merlo³, Antonino Salvatore Aricò¹ | | | |
| | ¹ CNR-ITAE, Messina, ITALY, ² ITM power, Sheffield, UK, ² Solvay Specialty Polymers ,Ballate, ITALY | | | |



| Symposium | F1 | Н1 | H2 |
|---------------|---|---|---|
| Room | 3-20/M1 | I -16/M1 | Conference Room 2/M1 |
| Session Title | Bioactive glasses for bone regeneration and infection | Manufacturing of Funtcional Magnetic Materials | Metals Recovery and Production II |
| Chairperson | Chiara Vitale-Brovarone | lver Anderson | D. Panias, Moyer Bruce |
| | ZINC-ENRICHED MESOPOROUS GLASSES LOADED WITH PTHIP (107-111) IMPROVE OSTEOBLASTIC GROWTH AND DIFFERENTIATION | HIGHLIGHT ENERGY-EFFICIENT REFRIGERATION NEAR ROOM TEMPERATURE WITH TRANSITION METAL BASED MAGNETIC REFRIGERANTS | RESEARCH PROGRESS IN DIVERSIFYING THE SUPPLY OF CRITICAL MATERIALS FOR CLEAN ENERGY |
| 15.00 | Miss Rebeca Perez ¹ , Dr. Sandra Sanchez-Salcedo ¹² , Dr. Daniel Lozano ¹² , <u>Dr. Antonio J Salinas¹²</u> , Prof. Pedro Esbrit ¹ , Prof. Maria Vallet-Regi ¹² | Ekkes Bruck ¹ , Nguyen Van Thang ¹ , Maurits Boeije ¹ , Lian Zhang ¹ , Xin Min You ¹ , Michael Maschek, Niels van Dijk | Corporate Fellow Bruce Moyer ¹ |
| | 'Universidad Complutense de Madrid, Madrid, Spain, ² CIBER-BBN, MADRID, España | ¹ Fundamental aspects of Materials and Energy, Aplied Sciences, TU Delft, Delft. Netherlands | ¹ Oak Ridge National Laboratory, Oak Ridge, United States |
| | SMART SCAFFOLDS FOR OSTEOPOROTIC FRACTURES | ALUMINUM CERIUM ALLOYS: THE NEXT STEP IN ALUMINUM | BIOMATERIAL NICKEL-TITANIUM SUPER ALLOYS RECYCLING VIA HYDROMETALLURGICAL METHODS |
| 15.20 | PhD Chiara Vitale-Brovarone¹, PhD Giorgia Novajra¹, Eng. Giulia Moli- no¹, Eng. Giorgia Montalbano¹, PhD Sonia Fiorilli¹, PhD Giovanni Vozzi², PhD Monica Mattioli-Belmonte³, PhD Gabriela Ciapetti⁴ | Zachary Sims ¹ | Mr. Muhammed Ihsan Ozgun¹, Prof. Dr. Mahmut Ercan Acma², MSc. Ahmet Burcin Batibay¹, Dr. Arslan Terlemez¹, Dr. Yasin Ramazan Eker¹ |
| | Politecnico di Torino - Department of Applied Science and Technology, Torino, Italy, ² Dipartimento di Ingegneria dell'Informazione, University of Pisa, Pisa, Italy, ³ DISCLIMO, Università Politecnica delle Marche, Ancona, Italy, + Laboratorio di Fisiopatologia Ortopedica e Medicina Rigenerativa, Istituto Ortopedico Rizzoli, Bologna, Italy | ¹ Oak Ridge National Laboratory, Oak Ridge, United States | ¹ Konya Necmettin Erbakan University, Konya, Türkiye, ² Istanbul Technical University, Istanbul, Türkiye |
| | LI-CONTAINING MESOPOROUS BIOACTIVE GLASS NANOPARTICLES FOR BONE REGENERATION | RARE EARTH ALTERNATIVES: SUBSTITUTION OF CRITICAL MATE- RIALS AND WASTE REDUCTION BY NET-SHAPE PROCESSING & ADDITIVE MANUFACTURING OF ALNICO PERMANENT MAGNETS | THE DISTRIBUTION OF P6 BETWEEN THE Fe-Si-Cu-O SYSTEM AND COPPER METAL |
| 15.40 | Dr. Preethi Balasubramanian¹, <u>Kai Zheng</u> ¹, Georgia Charalambopoulou², Theodore Steriotis², Prof. Dominique de Ligny³, Prof. Aldo Boccaccini¹ | <u>Dr. Emma White</u> ¹, Mr. Aaron Kassen¹, Mr. Emrah Simsek¹, Mr. Wei Tang¹, Dr. Ryan Ott¹, Dr. Iver Anderson¹ | Dr.ir. Amy Van den Bulck', Dr. ing. StuartTurner ² , Dr. ir. Muxing Guo ¹ , Dr. ir. Annelies Malfliet ¹ , Prof. dr. ir. Bart Blanpain ¹ |
| | Institute of Biomaterials, University Of Erlangen-Nürmberg, Germany, Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Greece, Institute of Glass and ceramics, University of Erlangen-Nürn- berg, Germany | [†] Ames Laboratory of USDOE, Ames, United States | ¹ Department of Materials Engineering. KU Leuven, Kasteelpark Arenberg 44, bus 2450, Belgium, ² Aurubis Belgium RDI, Watertorenstraat 25, Belgium |
| | PROCESSING AND ANTIBACTERIAL CHARACTERIZATION OF THERAPEUTIC ION-DOPED MESOPOROUS BIOACTIVE SILICATE GLASSES (MBGS) | SPIN AND LATTICE DYNAMICS OF MAGNETOCALORIC COMPOUNDS Mn5-xFexSi3 | CHLORINE ADDITION TO INDUSTRIAL SLAG FUMING PROCESSES: A THERMODYNAMIC STUDY |
| 16.00 | Miss Seray Kaya¹, Professor Dr. Aldo R Boccaccini¹, Dr. Mark Cresswell² | MSc Nikolaos Biniskos¹², Dr Karin Schmalzl¹, Dr Stephane Raymond², Dr Sylvain Petit³, Dr Paul Steffens⁴, Mr Joerg Persson⁵, Prof Thomas Brueckel⁴ | Dir. Sabrina Van Winkel ¹ , Dr. ir. Lennart Scheunis ² , Dr. ir. Annelies Malfliet ¹ , Dr. ir. Frederik Verhaeghe ¹² , Prof. Dr. ir. Bart Blanpain ¹ |
| | ¹ Institute Of Biomaterials, University Of Erlangen-nuremberg, Erlangen, Germany, ² Lucideon Ltd, Stoke-on-Trent, United Kingdom | ¹ JCNS, Forschungszentrum Juelich GmbH, Outstation at ILL, Grenoble, France, 2CEA-Grenoble, INAC MEM, 38054 Grenoble, France; CEAE-CNRS UMR 12, IRAMIS LLB, 91190 Gif-sur-Yvethe, France-finstitute Laue-Langevin, BP 156, 38042 Grenoble, France-fiCNS, Forschungszentrum Juelich GmbH, 52425 Juelich, Germany, 4/LNS and PGI, JARA-FIT, Forschungszentrum Juelich GmbH, 52425 Juelich, Germany | ¹ Department of Materials Engineering (MTM), KU Leuven, B-3001 Heverlee, Belgium, ² Umicore Research, B-2250 Olen, Belgium |
| | DEVELOPMENT AND CHARACTERIZATION OF MESOPOROUS GLASS COATINGS WITH ANTIBACTERIAL ION RELEASE CAPABILITY | FIELD-ENHANCED PROCESSING OF MAGNETICALLY RESPONSIVE CERAMIC MATERIALS | |
| 16.20 | Francesca Elisa Ciraldo ¹ , Prof. DrIng. habil. Aldo R. Boccaccini ¹ | Dr. Raymond Brennan ¹ , Dr. Victoria Blair ¹ , Dr. Michael Kornecki ¹ , Dr. Selva Raju ¹ , Dr. Nicholas Ku ¹ | |
| | 'Friedrich-Alexander University. Institute of Biomaterials, Erlangen, Germany | ¹ US Army Research Laboratory, Aberdeen Proving Ground, United States | |
| | MESOPOROUS BIOACTIVE GLASSES WITH ANTIBACTERIAL ADHESION PROPERTIES OBTAINED BY ZWITTERIONIC SURFACE MODIFICATION | | |
| 16.40 | PhD Ana García ¹² , PhD Sandra Sánchez-Salcedo ^{1,2} , PhD María Vallet-Regi ^{1,2} | | |
| | ¹ 1 Department of Inorganic and Bioinorganic Chemistry, Universidad Complutense de Madrid, Hospital 12 de Octubre, Spain, Madrid, Spain, ² CIBER-BBN, Spain, Madrid, Spain | | |



| Symposium | A1 2017 | A7 | B1 | B1(PARALLEL SESSION) |
|---------------|--|---|---|--|
| Room | M0YSA Hall/M2 | I-08/M1 | Conference Room 3/M1 | Conference Room 1/M1 |
| Session Title | Nanoparticles: Synthesis and Applications IV | Novel dielectrics | Advanced High Strength Steels: III | Advanced Characterisation I |
| Chairperson | Miguel Correa-Duarte | Kornelius Nielsch | Kaneaki Tsuzaki | Cem Tasan |
| | HIGHLIGHT COLLOIDAL NANOCRYSTALS TO ADVANCE STUDIES IN SOLAR-TO-CHEMICALS CONVERSION | HIGHLIGHT FERROELECTRIC POLYMER NANOSTRUCTURES INDUCED BY LASER PULSED IRRADIATION | HIGHLIGHT IN SITU INVESTIGATIONS OF PARTITIONING MECHANISMS IN Q&P STEELS BY SYNCHROTRON DIFFRACTION EXPERIMENTS | THE ROLE OF PHASE TRANSFORMATION MECHANISM ON GRAIN BOUNDARY CHARACTER DISTRIBUTION IN HSLA STEELS |
| 17.30 | Raffaella Buonsanti¹ | Esther Rebollar ¹ , Jing Cui ² , Margarita Hernández ¹ , Álvaro Rodríguez ² , Mari Cruz García Gutiérrez ² , Tiberio A Ezquerra ² , Aurora Nogales ² | Pr. Sébastien Allain ¹ , Dr. Guillaume Geandier ¹ , Dr. Jean-Christophe Hell ² , Dr. Michel Soler ² , Dr. Frédéric Danoix ³ , Samy Aoued ⁴ , Pr. Mohamed Goune ⁴ | Dr Hossein Beladi ¹ |
| | ¹EPFL, Sion, Europe | 'Instituto de Química Física Rocasolano, IQFR-CSIC, Madrid, Spain, ² Instituto De Estructura De La Materia, IEM-CSIC, Madrid, Spain | ¹ Institut Jean Lamour, Nancy, France, ² Arcelormittal Maizières Research SA, Maizières les Metz, France, ² Groupe de Physique des Matériaux, Rouen, France, ⁴ Institut de Chimie de la Matière Condensée de Bordeaux, Bordeaux, France | ''Deakin University, Geelong/Waurn Ponds, Australia |
| | HIGHLIGHT NANOCRYSTAL PHOTODETECTORS | EVIDENCES OF FERROELECTRICITY IN ZnO NANOPARTICLES | IN SITU µ-DIC MEASUREMENTS FOR STRAIN PARTITIONING IN MEDIUM Mn STEEL | COLLOIDAL ANALYSIS OF PARTICLES EXTRACTED FROM MICROALLOYED STEEL |
| | Prof. Richard J Curry ¹ | <u>Dr Eleni Pavlopoulou</u> ', Dr Jon Maiz', Dr Guillaume Fleury', Prof. Georges Hadziioannou', Prof. Vincent Rodriguez ² , Dr Mario Maglione ² , Dr Pauline Loxq ⁴ , Dr Katia Fajerwerg ⁴ , Dr Pierre Fau ⁴ , Dr Myrtil Kahn ⁴ , Guillaume Guegan ⁵ | Aniruddha Dutta ¹ , Dr. Dirk Ponge ¹ , DrIng. Stefanie Sandlöbes ² , Prof. DrIng. habil. Dierk Raabe ¹ | Andreas Hegetschweiler ¹ , Aljosha-Rakim Jochem ¹ , Anna Zimmermann ¹ , Dr. Thorsten Staudt ² , Prof. Dr. Tobias Kraus ¹ |
| 17.50 | ¹ University of Manchester, United Kingdom | 1Laboratoire de Chimie des Polymères Organiques (LCPO – UMR5629). Université de Bordeaux/Bordeaux (INP/CNRS, Pessac, France, "Institut des Sciences Moléculaires (ISM – UMR5255). Université de Bordeaux/CNRS, Talence, France, "Institut de Chimie de la Matière Condensée de Bordeaux (ICMCS – URR9049). CNRS, Pessac, France, 4 Laboratoire de Chimie de Coordination (LCC – UPR8241). CNRS, Toulouse, France, "ST Microelectronics, Tours, France | ¹ Max-Planck-Institut für Eisenforschung GmbH, Düs- seldorf, Germany, ² Institute of Physical Metallurgy and Metal Physics, RWTH Aachen, Aachen, Germany | ¹ INM - Leibniz Institute For New Materials, Saarbruecken, Germany, ² AG der Dillinger Huettenwerke, Dillingen, Germany |
| | LOCAL FIELD EFFECTS ON THE RADIATIVE RATE OF Mn2+ EMISSION IN ZnSe:Mn NANOCRYSTALS | OPTICAL FILTERS AND ELECTRICAL CAPACITANCES BASED ON NANOCOMPOSITES COMPOSED OF NANOPARTICLES EMBEDDED IN A DIELECTRIC MATRIX | MODELING OF CONTINUOUS TRANSITIONS IN THE PARTITIONING MODE OF ALLOYING ELEMENTS DURING ISOTHERMAL FERRITE AND BAINITE FORMATION | TEM OBSERVATION OF MOVING AUSTENITE-FERRITE INTERFACES IN STEELS |
| 18.10 | Ms. Elleke van Harten ¹ , Ms. Riande Dekker ¹ , Mr. Tim Prins ¹ , Prof. dr. Andries Meijerink ¹ | Phd. Student Vanessa Orozco¹. Frédéric Dumas-Bouchiat¹, Cédric Jaoul¹. Pascal Tristant¹ | Mr. Hussein Farahani ¹ . Prof. dr. ir. S. Sybrand van der Zwaag ¹ . Professor Wei Xu ^{1,2} | Mr John Nutter¹. Prof Mark Rainforth¹. Prof Sybrand van der Zwaag² |
| | 'Condensed Matter and Interfaces, Debye Institute for Nanomaterials Science, Utrecht University, Utrecht, Netherlands | 'Univ. Limages, CNRS, SPCTS, UMR 7315, F-87000 Limages, France, Limages, France | 'Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft University of Technology, Delft, Netherlands, 'State Key Laboratory of Rolling and Automation, Northeastern University, Shenyang, China | ¹ University Of Sheffield, Sheffield, United Kingdom, ² TU Delft, Delft, The Netherlands |
| | FABRICATION AND ELECTRICAL CHARACTERIZATION OF HETEROJUNCTION CdSe/Cu2Se NANOWIRES VIA THE MASKED CATION EXCHANGE | DIELECTRIC AND LIGHT-EMISSION PROPERTIES OF Cr4+ DOPED Cain204-C HYBRID NANOSTRUCTURE | EFFECT OF CHROMIUM AND MANGANESE PARTI- TIONING IN LOW ALLOYED STEEL AFTER ULTRA – FAST HEAT TREATMENT | THE EFFECT OF MO ON PRECIPITATION KINETICS IN A TI CONTAINING HSLA STEEL |
| 18.30 | Dr. Sedat Dogan ¹ , Dr. Stefan Kudera ¹ , Prof.Dr. Liberato Manna ¹ , Prof.Dr. Roman Krahne ¹ | Ms. Barkha Tiwari ¹ , Prof. Shanker Ram ¹ | DiplEng. Marianthi Bouzouni ¹² , DrIng. Spyros Papaefthymiou ¹ | Dr. Yiqiang Wang ¹² , Mr. Samuel Clark ² , Dr. Vit Janik ³ , Dr. Biao Cai ¹² , Dr. Diego Alba Venero ⁶ , Dr. Kun Yan ¹ , Professor Graham McCartney ⁸ , Professor Sridhar Seetharaman ³ , <u>Professor Peter David Lee¹</u> |
| | ¹Istituto Italiano Di Tecnologia, Genova, Italy | ¹Indian Institute Of Technology. Kharagpur. Kharagpur. India | ¹ National Technical University Of Athens. 9. Her. Poly- techniou str., Zografos, Greece, ¹ ELKEME S.A., 56th km Athens – Lamia National Road Oinofyta, Greece | School of Materials, University of Manchester, Manchester, M13 PPL, UK, United Kingdom, "MUF, Research Complex at Harwell, Harwell Campus, Oddrashire, ONI 10°A, United Kingdom, "WMG, Algoland, "Willed Kingdom, "Sis Facility, Nutherford Appliedn, Laboratory, Didco, Oxolorishire, ONI 100, XK, United Kingdom, "Advanced Materials Group, Faculty of Engineering, University of Notificiplam, Natlandam, McCard UK, United Kingdom. |
| | HIGH TEMPERATURE PRODUCTION OF SUPERPARA- MAGNETIC IRON OXIDE NANOPARTICLES (SPIONS) IN CONTINUOUS FLOW | | CHARACTERIZATION OF QUENCHING AND PARTITIONING MICROSTRUCTURES IN MARTENSITIC STAINLESS STEELS | BORON SEGREGATION AND PRECIPITATION AT AUSTENITE GRAIN BOUNDARIES IN ADVANCED HIGH-STRENGTH STEELS |
| 18.50 | Professor Jesus Santamaria ¹ , Dr Laura Uson, Dr Manuel Arruebo, Dr Victor Sebastian | | Ir Gorka Martin-Donate ¹ , Ir. Javier Vivas ¹ , Ir. Cristian Lopez-de-Felipe ¹ , Ir. Miguel Benito-Alfonso ¹ , Dr. Jose Antonio Jimenez ¹ , Dr. M.X. Huang ² , Dr. David San-Martin ¹ | Mr. Gregory da Rosa ¹² , Pr. Philippe Maugis ² , Ms. Josée Drillet ¹ , Dr. Nathalie Valle ³ , Pr. Khalid Hoummada ² |
| | 'Universidad De Zaragoza, Zaragoza, Spain | | "Department of Physical Metallurgy, National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, "Department of Mechanical Engineering, The University of Hong Kong, Hong Kong, China | 'ArcelorMittal Maizieres Research, Maizières-les-Metz, France, 'Aix Marseille Univ, Marseille, France, 'Luxembourg Institute of Science an Technology, Belvaux, Luxembourg |
| | | | EFFECT OF THE PRIOR AUSTENITE GRAIN SIZE ON THE STRENGTHENING CONTRIBUTION OF QUENCHING & PARTITIONING MICROCONSTITUENTS | QUANTIFICATION OF THE EFFECT OF HETEROGE- NEOUS CARBON DISTRIBUTION IN PRIOR AUSTENITE IN A LOW ALLOY DP STEEL |
| 19.10 | | | Dr. Carola Celada-Casero¹, Prof. Jilt Sietsma¹, Dr. Maria Santofimia¹ | Hamidreza Farivar ¹ , U. Prahl ¹ , S. Richter ² , M. Hans ³ , W. Bleck ¹ |
| | | | ¹ Delft University of Technology, Netherlands | Steel Institute (IEHK), RWTH Aachen University, Aachen, Germany, ² Central Facility for Electron Microscopy (GFE), RWTH Aachen University, Aachen, Germany, ³ Materials Chemistry (MCh), RWTH Aachen University, Aachen, Germany |
| | | | | THE GOS-METHOD: AN ALTERNATIVE METHOD FOR THE DETERMINATION OF RECRYSTALLIZATION KINETICS OF DEFORMED MICROSTRUCTURES |
| 19.30 | | | | M.Sc. Lena Eisenhut ¹ , Prof. Dr. mont. Christian Motz ¹ , M.Sc. Tim Krämer ² , Dr. Eric Detemple ² |
| | | | | ¹ Saarland University, Chair Of Material Science and Methods, Saarbrücken. Germany, ² AG der Dillinger Hüttenwerke, Dillingen Saar, Germany |



| Symposium | B2 | В3 | В6 | B10 |
|---------------|--|--|---|---|
| Room | Aimilios Riadis Hall/M2 | CR I Hall/M2 | I-11/M1 | Maurice Saltiel Hall II/M2 |
| Session Title | Modeling and Simulation in Light Metals | Silicides | Advanced Composites - Nano Carbon Particles | Corrosion and Fatigue II |
| Chairperson | Georg Schmitz | S. Milenkovic | Bodo Fiedler | Apostolos Chamos & Angeliki Lekatou |
| | HIGHLIGHT THERMODYNAMICS AND PHASE DIAGRAMS FOR TIAL-BASED ALLOYS FROM CALPHAD APPROACH | KEYNOTE/INVITED Nb SILICIDE BASED ALLOYS WITH A BALANCE OF PROPERTIES: ALLOY DESIGN | INVESTIGATION OF THE THERMO-MECHANICAL PROPERTIES, THERMAL DECOMPOSITION AND FLAMMABILITY OF GFRP | CORROSION-INDUCED MECHANICAL PROPERTIES DEGRADATION OF AL-Cu-Li 2198 ALUMINUM ALLOY |
| 17.30 | Prof. Dr. Hans Juergen Seifert [†] | | <u>Björn Riecken</u> ', Bodo Fiedler' | Christina Margarita Charalampidou', Professor Stavros Kourkoulis', Alexandra Karanika', Wolfgang Dietzel', Carsten Blawert', Volker Heitmann', Assistant Professor Nikolaos Alexopoulos' |
| | ¹ Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany | Prof.Panos Tsakiropoulos¹ | ¹ Institute Of Polymer Composites, Hamburg University Of Technology, Hamburg, Germany | Department of Financial Engineering, University Of Aegean, Chios, Greece, Department of Mechanics, Laboratory of Testing and Materials, National Technical University of Athens, Athens, Greece, Hellenic Aerospace Industry S.A., Athens, Greece, Institute of Materials Research, Department of Corrosion and Surface Technology, Helmholtz-Zentrum Geesthacht, Germany |
| | A NEW THERMODYNAMIC DATABASE FOR TI-BASED ALLOYS AND TIAL-BASED MATERIALS | | MICROSTRUCTURE AND COMPRESSIVE PROPERTIES OF GRAPHENE-REINFORCED AI MATRIX NANOCOM- POSITE PREPARED BY A POWDER METALLURGY ROUTE | FATIGUE CORROSION OF CEMENTED CARBIDES |
| 17.50 | <u>Dr. Hai-Lin Chen</u> ¹, Dr. Yang Yang¹, Dr. Qing Chen¹, Dr. Anders Engström¹ | ¹ The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street, Sheffield S1 3JD, United Kingdom | <u>Dr. Hamed Asgharzadeh</u> ¹, Mrs. Maryam Sedigh¹ | Dr. Eng. Silvia Simison ¹ , Mr Mauro Arcidiacono ¹ , Dr Amadeo Sosa ¹ , Dr. Joan Roa ⁴ , Dr Emilio Jimenez Pique ⁴ , Dr Flavio Soldera ³ , Dr Mohammad Zamanza- de ³ , Dr José Garcia ² |
| | 'Thermo-Calc Software AB, Solna, Sweden | | ¹ University Of Tabriz, Tabriz, Iran | ¹ Universidad De Mar Del Plata/CONICET, Mar Del Plata, Argentina, ² Sandvik Coromant R&D, Stock- holm, Sweden, ³ Saarland University, Saabrücken, Germany, ⁴ Escola Enginyeria de Barcelona Est. Dept. Ciencia dels Materials e Ing. Metal.lurgica, Barcelona, Spain |
| | AN INTEGRATED CRYSTAL PLASTICITY AND PHASE FIELD MODEL TO SIMULATE TWINNING BEHAVIOR IN MAGNESIUM | INTERFACE REACTION BETWEEN Nb-Si MELT AND CERAMIC SHELL/CORE DURING ULTRAHIGH TEMPERATURE CASTING | DAMAGE TOLERANCE OF GRAPHENE NANOCOMPOSITES | ON THE MECHANICAL STABILITY OF DIFFERENT OXIDES FORMED ON IRON ALUMINIDES AFTER CYCLIC HIGH TEMPERATURE OXIDATION AT 700°C |
| 18.10 | Chuantai Liu ¹ ² , Martin Diehl ² , Pratheek Shanthraj ² , Franz Roters ² , Dierk Raabe ⁴ , Stefanie Sandlöbes ³ , Jie Dong ¹ | Dr. Yongwang Kang ¹ , Prof. Chengbo Xiao ¹ , Mr. Ming Li1, Mr. Fengwei Guo ¹ , Dr. Meiling Wu ¹ | Mrs Christina Kostagiannakopoulou', Dr. George Sotiriadis', Dr. Stavros Tsantzalis', Prof. Vassilis Kostopoulos' | Harald Rojacz ¹ , Lubomir Krabac ¹ , Andreas Sikora ²³ , Dr. Markus Varga ¹ , Dr. Manel Rodriguez Ripoll ¹ |
| | 'National Engineering Research Center of Light Alloy Net Forming, Shanghai Jiao Tong University, Shanghai China, 'Max-Planck-Instlut fir Eisenforschung, Düsseldorf, Germany, 'Instlute of Physical Metallurgy and Metal Physics, RWTH Aachen University, Aachen, Germany | 1Beijing Institute of Aeronautical Materials, Beijing, China | ¹ Department of Mechanical Engineering and Aeronau- tics, University of Patras, University Campus, GR-26504 Rio Patras, Greece, Patras/University Campus, Greece | ¹ AC2T research Gmbh, Wiener Neustadt, Austria, ² Vienna University of Technology, Vienna, Austria, ³ CEST Competence Centre, Wiener Neustadt, Austria |
| | PHASE-FIELD MODELLING OF THE SOLIDIFICATION OF LIGHT METAL MATRIX COMPOSITES | SOLIDIFICATION PROCESSING OF Nb-SILICIDE BASED ALLOYS | THE NEW APPROACH TO DESIGN OF DIAMOND CON- TAINING COMPOSITE MATERIALS: PHENOMENA OF INTERFACIAL SPONTANEOUS CHEMICAL REACTIONS | HYDROGEN EMBRITTLEMENT OF LASER BEAM MELTING INCONEL 718 UNDER LOW CYCLE FATIGUE LOADING. |
| 18.30 | Tamás Pusztai ¹ , László Rátkai ¹ , László Gránásy ¹ | <u>Mr Nicolas Tankov</u> ¹ . Dr Panos Tsakiropoulos ¹ , Dr Claire Utton ¹ | <u>Dr Daria Sidorenko</u> ¹, Dr Evgeny Levashov¹, Dr Pavel Loginov¹, Natalia Shvyndina¹ | Phd Student Simon Puydebois ^{1,23} , Materials Engineering PhD Pierre Bernard ¹ , Materials Science PhD Laurent Briottet ² , Professor Xavier Feaugas ³ , Materials Science PhD Abdelali Oudriss ³ |
| | 'Wigner Research Centre for Physics, Budapest, Hungary | ¹ University of Sheffield, Sheffield, United Kingdom | ¹ National University of Science and Technology MISIS, Moscow, Russian Federation | ¹ Airbus Safran Launchers (ASL), Forêt de Vernan. F-27200, Vernan, France, ² Univ Grenoble Alpes, CEA. LITEN, DTBH, F-38000 Grenoble, France, ³ LaSIE, CNRS UMR 7356, Université de La Rochelle, F-17000, La Rochelle, France |
| | SIMULATION OF PHASE TRANSFORMATIONS DURING THE HOMOGENIZATION OF A 6082 EXTRUDABLE AL-ALLOY USING COMPUTATIONAL THERMODYNAM- ICS AND KINETICS | MICROSTRUCTURE INVESTIGATION OF NEW Nb-Si ALLOYS | | CORROSION BEHAVIOR OF ALUMUNIUM MATRIX Systactic foams in simulated seawater |
| 18.50 | Professor Greg Haidemenopoulos ¹ . Dr Panagiota Sarafoglou ¹ | <u>Mr Virgil MALARD</u> ¹ , Mr Stefan Drawin ¹ , Mrs Anne Denquin ¹ , Mr Alain Couret ² | | <u>Mr. Christos Vogiatzis</u> ¹, Professor Stefanos Skolianos¹ |
| | ¹ University Of Thessaly, Volos, Greece | ¹ ONERA - The French Aerospace Lab, Châtillon, France, ² CEMES, Toulouse, France | | ¹ Aristotle University of Thessaloniki, Mechanical Engi- neering Department. Physical Metallurgy Laboratory, Thessaloniki, Greece |
| | MODELING OF THE B TO a PHASE TRANSFORMATION IN MULTICOMPONENT TITANIUM ALLOYS: INFLUENCE OF THE B/B GRAIN BOUNDARIES ON THE KINETICS AND MICROSTRUCTURES | PHASE EQUILIBRIA AND THE DEVELOPMENT OF ALLOYS FOR ULTRA-HIGH TEMPERATURE APPLICATIONS | | CORROSION OF AA7075 BULK AND COLD SPRAYED ALUMINUM ALLOY COATINGS IN SALTWATER |
| 19.10 | Mrs Sarah Tioual-Demange 12, Mr Benoit Appolaire3, Mrs Elisabeth Aeby-Gautier2, Mr Immanuel Freiherr von Thüngen1, Mr Oscar Garcia Beltran1 | Prof. Panos Tsakiropoulos [†] , Dr Claire Utton [†] | | <u>Sieglind Ngai</u> 1 ² , Prof. Tungwai Ngai1, Dr. Florian Vogel ²³ , William Story ² , Prof. Gregory B. Thompson ² , Prof. Luke N. Brewer ² |
| | ¹ Safran Tech , Paris Saclay, France, ² Jean Lamour Institute, Nancy, France, ² LEM Onera/CNRS, Châtillon, France | ¹ The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street, Sheffield S1 3JD, United Kingdom | | ¹ South China University of Technology, Guangzhou, China, ² The University of Alabama, Tuscaloosa, United States, ³ Technische Universität Berlin, Berlin, Germany |
| | | | | |



| Symposium | B11 | C1 | C7 | D1 |
|---------------|--|---|--|--|
| Room | Maurice Saltiel Hall III/M2 | F 319/M1 | I-15/M1 | Artist Cafe/M1 |
| Session Title | Alloy Development and Advanced Microstructures | Coatings and thin films 6/6 Composite coatings | Steel Production | Catalysis & Nanostructures |
| Chairperson | Florian Spieckermann | L. Singheiser, A, Cavaleiro | Spyros Papaeftymiou | Lucia Amidani, Oskar Paris |
| | DESIGN STRATEGIES FOR SELF HEALING OR HEALABLE ALLOYS | EVALUATION OF YOUNG'S MODULUS AT ELEVATED TEMPERATURES OF THERMAL BARRIER COATING BY BENDING RESONANCE METHOD | THE OPTIMIZATION OF AC EAF PROCESS CHARGING HOT METAL FOR SPECIAL STEEL IN HYUNDAI STEEL | HIGHLIGHT INTERMEDIATES OF ELECTROCHEMICAL WATER OXIDATION: HOW THEY COME AND HOW THEY GO |
| 17.30 | Cem Tasan¹, Meimei Wang¹, Jiali Zhang¹ | Satoru Takahashi', Kazuki Ookubo ¹ , Hiroyuki Waki ² , Masahiko Kato ³ , Syusui Ogawa ⁴ , Furnio Ono ¹ | Mr. JongDeok Kim¹, Dr. JongOh Jo¹, Mr. DaeHoon Shin¹, Mr. ChangOh Lee¹, Dr. ChangHyun Wee², Bachelor Kangll Lee², Dr. JaeHwan Ahn1 | Braun Artur¹ |
| | 1MIT, Cambridge, USA | ¹Tokya Metropolitan University, Tokya. Japan. ²Iwate University, Iwate, Japan. ²Hiroshima University, Hiroshima. Japan. ²Japan Fine Ceramics Center. Nagoya. Japan. ²Osaka Science & Technology Center, Osaka, Japan | "Hyundai Steel R&D Center Steelmaking Technology Development Team, 1480 Bukbusaneop-ro, Son- gak-eup, Dangjin-si. South Korea; "Hyundai Steel Special Steel Steelmaking Department, 1480 Bukbusa- neop-ro, Songak-eup, Dangjin-si, South Korea | Empa. Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland |
| | MICROSTRUCTURE OF INTERMETALLIC PARTICLE STRENGTHENED FULLY FERRITIC AND ADVANCED HIPERFER STEELS | HYBRID NANOCOMPOSITE COATINGS BY AERO- SOL-ASSISTED ATMOSPHERIC COLD PLASMA DEPOSITION. PREPARATION, CHARACTERIZATION AND APPLICATIONS | IDENTIFICATION AND MODELING OF CRUCIAL PROCESS PARAMETERS FOR THE CONTINUOUS IMPROVEMENT OF SPECIAL STEELS AT THE STOMANA PLANT | IN-SITU ULTRA-SMALL-ANGLE X-RAY SCATTERING STUDY ON UNIAXIAL STRETCHING OF PHYSICALLY CROSSLINKED COLLOIDAL CRYSTAL PREPARED BY SILICA NANOPARTICLES GRAFTED BY HYDRO- GEN-BONDING POLYMER |
| 17.50 | Jennifer Lopez Barrilao¹, Dr Bernd Kuhn¹, Dr Egbert Wessel¹, Dr Erik Skiera¹, Dr Michal Talik¹ | <u>Dr David Ruch</u> ¹ | <u>Dr Panagiotis Sismanis</u> ¹, Mrs Marianthi Bouzouni ²³ , Dr Spyros Papaefthymiou³ | <u>Dr Ryohei Ishige</u> ¹, Dr Gregory A Williams², Dr Yuji Higaki². Dr Noboru Ohtaʻ, Dr Masugu Satoʻ, Professor Atsushi Takahara², Professor Zhibin Guan+ |
| | ¹ Forschungszentrum Jülich GmbH, Jülich, Germany | ¹ Luxembourg Institute of Science and Technology, Esch/alzette, Luxembourg | Sidenor Sa, 33, Amaroussiou-halandriou St, Greece, +ELKEME SA, 56th km Athens-Lamia Nat. Road, Greece, *National Technical University of Athens. 9, Her. Polylechniau Str., Greece | Department of Chemical Science And Engineering, Meguro-ku, Ookayama, E4-5, 2-12-1, Japan, Alastitute for Materials Chemistry and Engineering (IMCE), Nishi-ku, MotooZZka, 744, Japan, Department of Chemistry, 1102 Natural Sciences Q, University of California, Irvine, CAP2697, USA, Japan Synchrotron Radiation Research Institute (JASRI/SPring-8), Sayo-gun, Sayo-cho, 679-5198, Japan |
| | INVESTIGATION OF THE EFFECT OF CHEMICAL COMPOSITION AND STRUCTURE OF THE ANNEALING KINETICS OF COPPER WIRES USED FOR ELECTRICAL PURPOSES | THE GROWTH OF SILVER NANOPARTICLES ON TITANIUM DIOXIDE COATINGS PARTIALLY COVERED BY GRAPHENE SHEETS | THE TECHNOLOGY OF DIRECT BORON MICROALLOY- ING FOR LOW CARBON STEEL | THE EFFECT OF THERMAL TREATMENT ON THE STRESS STATE AND EVOLVING MICROSTRUCTURE OF NANO-MULTILAYERS: AN IN-SITU HIGH TEMPERATURE XRD STUDY |
| 18.10 | M.sc. Eng. Małgorzata Zasadzińska¹, Ph.D., D.Sc. Tadeusz Knych¹, Ph.D., D.Sc. Beata Smyrak¹, M.sc. Eng. Bartosz Jurkiewicz¹, M.sc. Eng. Marek Gniełczyk+ | MSc Kaja Spilarewicz-Stanek', MSc Joanna Ginter', Dr Aneta Kisielewska', Prof. Ireneusz Piwoński+ | <u>Dr Anatoly Babenko¹²</u> , Dr Vladimir Zhuchkov¹², Dr Alexander Sychev¹, Dr Alena Upolovnikova¹ | Dr Claudia Cancellieri', Dr Mirco Chiodi', Dr Vicente Araullo-Peters', Dr Frank Moszner', Dr Jolanta Janczak-Rusch', Dr Lars P.H. Jeurgens' |
| | 'AGH - University of Science and Technology, AL Mick- iewicza 30, 30-059 Krakow, Poland , Kraków, Poland | ¹ University Of Lodz, Faculty Of Chemistry, Department Of Materials Technology And Chemistry, Lodz, Poland | Institute Of Metallurgy Ural Branch Of The Russian Academy Of Sciences, Ekaterinburg, Russian Federation, 'Ural Federal University named after the first President of Russia B.N. Yeltsin, Ekaterinburg, Russian Federation | 'Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Joining Technologies and Corrosion, Überlandstrasse 129, 8600 Dübendorf, Switzerland, Dübendorf, Switzerland |
| | STRAIN RATE EFFECT ON THE MICROSTRUCTURES OF CONVENTIONAL AND HARMONIC 8 TITANIUM ALLOYS | WATER BORNE POLYURETHANE COMPOSITE FILMS WITH FEW LAYER GRAPHENE | EFFECT OF SLAG COMPOSITION ON THE FORMATION BEHAVIOUR OF OXIDE-SULFIDE COMPLEX INCLU- SIONS IN LADLE METALLURGY | FAST IN SITU NANOTOMOGRAPHY AT ID16B ESRF BEAMLINE: A NEW TOOL FOR DYNAMIC CHARAC- TERIZATION |
| 18.30 | <u>David Tingaud</u> ¹ , Hervé Couque ² , Daiki Ueda ³ , Guy Dirras ¹ , Key Ameyama ³ | <u>Dr Maria Paiva</u> ¹, Dr. Eunice Cunha¹, Professor Maria Fernanda Proença² | Dr. Jae Hong Shin ¹ . <u>Professor Joo Hyun Park</u> ¹ | Dr. Julie Villanova ¹ , Ms. Richi Kumar ¹² , Dr. Rémi Daudin ² , Dr. Pierre Lhuissier ² , Dr. Luc Salvo ² , Dr. David Jauffrès ² , Dr. Christophe Martin ² , Dr. Gema Martinez-Criado ³ , Dr. Rémi Tucoulou ¹ |
| | ¹ Université Paris 13, Sorbonne Paris Cité, LSPM-CNRS, Villetaneuse, France, ² Nexter-Munitions, Bourges, France, ³ Dpt of Mechanical Engineering, Ritsumeikan University, Japan | ¹ University of Minho, Institute for Polymers and Composites/i3N, Guimaräes, Portugal, ² University of Minho, Department of Chemistry, Braga, Portugal | [†] Department of Materials Engineering, Hanyang University, Ansan, South Korea | 'ESRF- The European Synchrotron, France, 2Univ. Grenoble Alpes-CMRs-SIMAP, France, 33 Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Clentificas, Spain |
| | SUPERPLASTIC BEHAVIORS OF SEVERELY DEFORMED AND NATURALLY AGED Zn-AL ALLOYS AT ROOM AND ELEVATED TEMPERATURES | INTRINSIC HYDROPHOBICITY OF THIN FILMS OF CERAMICS BASED ON LOW-ELECTRONEGATIVITY METALS PREPARED BY MAGNETRON SPUTTERING | THE OPTIMIZATION OF STEELMAKING CONDITIONS TO REDUCE MACRO INCLUSION FOR SPECIAL STEEL | DIRECT VIEW ON SELF HEALING IN Fe-Au ALLOYS By Synchrotron X-ray Nano-Tomography |
| 18.50 | Muhammet Demirtas ¹ , Megumi Kawasaki ² , Harun Yanar ³ , Gençağa Pürçek ^{3,4} | <u>Simon Kos</u> ¹, Sergei Zenkin¹, Jindrich Musil¹ | Mr. Geunho Park ¹ , Mr. Chulho Chang ¹ , Mr. Haegon Kim ¹ , Mr Joongbum Lee ¹ , Dr. Jaehwan Ahn ¹ | Mr. Haixing Fang', Mr. Casper Versteylen', Dr. Shasha Zhang', Dr. Yang Yang ² , Dr. Peter Cloetens ² , Dr. Dominique Ngan-Tillard', Prof.dr. Ekkes Brück', <u>Prof.</u> dr. Sybrand van der Zwaag', Dr. Miels van Dijk' |
| | Bayburt University, Turkey, ² Hanyang University, Seoul, Korea, ³ Karadeniz Technical University, Trabzon, ⁴ Giresun University, Giresun, Turkey | ¹ University Of West Bohemia, Plzen, Czech Republic | 'Hyundai Steel Company. Dangjin-Si. South Korea | "Delft University Of Technology, Delft, Netherlands, "European Synchrotron Radiation Facility, Grenoble, France |
| | | HIGH-TEMPERATURE HE-B-SI-C-N FILMS WITH CONTROLLED ELECTRICAL CONDUCTIVITY AND OPTICAL TRANSPARENCY PREPARED BY PULSED MAGNETRON SPUTTERING | INFLUENCE OF THERMAL HISTORY ON HOT DUCTILITY OF CONTINUOUSLY CAST LOW ALLOYED C1-Mo-STEELS | |
| 19.10 | | Veronika Šímová †, Jaroslav Vlček†, Šárka Zuzjaková†, Radomír Čerstvý [†] , Jiří Houška+ | Dipl.ing. Christian Hoflehner', Dr. Coline Beal', Univ Prof. DiplIng. Dr. techn. Christof Sommitsch ¹ , Dl. Dr. Jakob Six ² , Dl. Dr. Sergiu Ilie ² | |
| | | ¹ Department of Physics and NTIS - European Centre of Excellence, University of West Bohemia, Plzeň, Czech Republic | ¹ Technical University of Graz , Graz , Austria, ² voestal- pine AG, Linz, Austria | |
| | | DROPWISE CONDENSATION ON TEXTURED METALLIC SUBSTRATES THROUGH ROBUST HYDROPHOBIC COATINGS | AN APPROACH TO SIMULATE TEMPERATURE OSCILLATIONS DURING CONTINUOUS CASTING OF MICRO-ALLOYED STEEL | |
| 19.30 | | <u>Dr. Chander Shekhar Sharma</u> ¹, Dr. Athanasios Milionis¹, Prof. Dimos Poulikakos | <u>Pierre Wiehoff</u> ¹ , Harald Radlwimmer ¹ , Sergiu Ilie ² , Guillermo Requena ³ , Ernst Kozeschnik ¹ | |
| | | ¹ ETH Zurich, Zurich, Switzerland | 'TU Vienna, Vienna, Austria, ² voestalpine Stahl GmbH, Linz, Austria, ² German Aerospace Center (DLR), Cologne, Germany | |

| Symposium | D2 | D4 | D9 |
|---------------|--|--|--|
| Room | Museum Hall /M2 | Library Hall/M2 | Maurice Saltiel Hall I/M2 |
| Session Title | In situ characterization II | Modelling through the length scales | Nuclear Fuel (I) |
| Chairperson | Eva Olsson | Alexey Romanov & Christophe Pinna | Marjorie Bertolus |
| | KEYNOTE/INVITED ATOMIC DEFCTS IN OXIDES STUDIED BY TRANSMISSION ELECTRON MICROSCOPY | HIGHLIGHT INTERNAL STRESSES AND STRUCTURE EVOLUTION IN SMALL PARTICLES DURING ANNEALING | KEYNOTE/INVITED SIMULATION OF NUCLEAR MATERIALS BEHAVIOUR UNDER ACCIDENTAL AND EXTREME CONDITIONS |
| 17.30 | | Dr. Maksim Dorogov ¹ , Ms. Anastasia Priezzheva ¹ , Dr. Leonid Dorogin ¹² , Dr., Prof. Anatoly Vikarchuk ¹ , Dr., Prof. Mikhail Gufkin ¹² 4, Dr., Prof. Anna Kolesnikova ¹²⁴ , Dr., Prof. Alexey Romanov ¹²⁵ , Dr., Prof. Elias Aifantis ¹²³ | |
| | Dr Martin Albrecht ¹ , Dr Toni Markurt ¹ , Robert Schewski ¹ , Dr Zbigniew Galazka ¹ | ¹ Togliatti State University, Togliatti, Russian Federation, ² ITMO University, St. Petersburg, Russian Federation, ³ Aristatle University of Thessaloniki, School of Engineering, Thessaloniki, Greece, ⁴ Institute of Problems of Mechanical Engineering, St. Petersburg, Russian Federation, ³ Offe Physical Technical Institute, Russia Academy of Sciences, St. Petersburg, Russian Federation | Ph.D. Dario Manara ¹ |
| | 'Leibniz-Institut fuer Kristallzuechtung. Berlin, Germany | A NEW INTERFACE PARAMETER FOR CAPTURING GRAIN BOUNDARY STRENGTH | ¹ European Commission, JRC, Karlsruhe, Germany |
| 17.50 | | <u>Dr Katerina Aifantis</u> ¹ | |
| 17.30 | | 'Univ Of Arizona, United States | |
| | | | |
| | THE TEMPERATURE-DEPENDENCY OF THE ZnO BAND GAP STUDIED BY STEM-EELS | COMPUTATIONAL ANALYSIS OF DEFORMATION PROCESSES IN ADDITIVE MANUFACTURED STEEL SPECIMENS | KEYNOTE/INVITED EXPERIMENTAL NUCLEAR FUEL IRRADIATIONS IN THE HIGH FLUX REACTOR WITHIN THE EERA-JPNM FRAMEWORK |
| 18.10 | Cecilie Granerød ¹ , Lasse Vines ¹ , Klaus Magnus Johansen ¹ , Øystein Prytz ¹ | Dr. Olga Zinovieva ¹ , Dr. Aleksandr Zinoviev ¹ , Prof. DrIng. Vasily Ploshikhin ¹ , Prof. Dr. Sci. Ruslan Balokhonov ^{2,3} , Prof. Dr. Sci. Varvara Romanova ² | |
| | ¹ University of Osla, Osla, Norway | 'Airbus Endowed Chair for Integrative Simulation and Engineering of Materials and Processes (ISEMP), University of Bremen, Bremen, Germany, 'Institute of Strength Physics and Materials Science. Siberian Branch of the Russian Academy of Sciences, Tomsk, Russia, 'National Research Tomsk Polytechnic University, Tomsk, Russia | Mr. Sander Van Til ¹ , Mr. Ralph Hania ¹ , Mr. Raymond Okel ¹ , Mr. Arjan de Koning ¹ , Mr. Elio d'Agata ² , Mr. Daniel Freis ³ , Mme Marjorie Bertolus ⁴ , Mme Marie-France Barthe ⁵ |
| | HIGHLIGHT TEM STUDIES ON NANO-FILAMENT EVOLUTION IN SWITCHING PRO- CESSES IN H102-BASED RESISTIVE RANDOM ACCESS MEMORY | COMPLEX ESTIMATION OF STRENGTH PROPERTIES OF THE FUNCTION- AL MATERIALS | 'Nuclear Research and consultancy Group (NRG), Petten, Netherlands, 'European Commission - Joint Research Centre (JRC), Petten, Netherlands, 'European Commission - Joint Research Centre (JRC), Karlsruhe, Germany, 'Commissariat à l'Energie Atomique (CEA), Saint-Paul-lez-Durance, France, 5Centre national de la recherche scientifique (DNRS), Orleans, France |
| 18.30 | Dr. Chao Li ¹ , Dr. Bin Gao ² , Dr. Yuan Yao ¹ , Xiangxiang Guan ¹ , Dr. Xi Shen ¹ , Prof. Yanguo Wang ¹ , Dr. Peng Huang ² , Prof. Lifeng Liu ² , Prof. Xiaoyan Liu ² , Prof. Junjie Li ¹ , Prof. Changzhi Gu ¹ , Prof. Jinfeng Kang ² , <u>Prof. Richeng Yu¹</u> | Prof Mikhail Gitman ¹ . Prof Valeriy Stolbov ¹ | |
| | 'Institute Of Physics, Chinese Academy Of Sciences, Beijing, China, 'Institute of Microelectronics, Peking University, Beijing, China | Perm National Research Polytechnic University, Perm, Russian Federation | |
| | ELUCIDATION OF CONDUCTING FILAMENT FORMATION IN Hf02 BASED RERAM DEVICES BY IN-SITU TEM | PRECURSOR ACTIVITY IN SLIDING INTERFACES | DAMAGE CHARACTERIZATION OF DISPLACEMENT CASCADES IN (U,Pu)02 FUELS BY MD SIMULATIONS |
| 18.50 | Gemma Martín¹, Mireia B. González², Francesca Campabadal², Sònia Estradé¹, Francesca Peiró¹, Albert Cornet¹ | Dr Markos Avlonitis ¹ , Dr George Efremidis ² , Dr Avraam Konstantinidis ³ | Hector E. Balboa', Laurent Van Brutzel' |
| 10.00 | "ILENS-MIND-IN2UB, Departament d'Enginyeries: Electrònica, Universitat de Barcelona, Marti i Franques 1, 08028 Barcelona, Spain, ² Institut de Microelectrònica de Barcelona, IMB-CNM (CSIC), Campus UAB, 08193 Bellaterra, Spain | Department of Informatics. Ionian University. Corfu, Greece. Department of Civil Engineering. University of Thessaly, Volos. Greece. Department of Civil Engineering. Aristotle University of Thessaloniki. Thessaloniki. Greece | Den-Service de la Corrosion et du Comportement des Matériaux dans leur Environnement (SCCME), CEA, Université Paris-Saclay, Giff-Sur-Yvette, France |
| | IN SITU OBSERVATION AND 3D ATOMIC-SCALE QUANTIFICATION OF CONDUCTIVE FILAMENT IN A RESISTIVE SWITCHING DEVICE | VIBRATIONS OF A PIEZOELECTRIC NANOBEAM WITH SURFACE EFFECTS | ATHERMAL LATTICE REPAIR IN ACTINIDE DIOXIDES UNDER INTENSE ALPHA-DECAY-INDUCED DAMAGE |
| 19.10 | Doctor Byeong-Gyu Chae ¹ , Professor Jae-Bok Seol ² , Doctor Jeong-Hwan Song ¹ , Doctor Kyung-Jun Baek ¹ , Professor Hyunsang Hwang ¹ , Professor Chan-Gyung Park ^{1,2} | Professor Kaiyu Xu'. <u>PhD Yanmei Yue</u> ² | Professor Yehuda Eyal ¹ |
| | Postech, Pohang, South Korea, *National Institute for Nanomaterials Technology (NINT), Pohang, South Korea | 'Shanghai University, Shanghai, China, ² Shijiazhuang Tiedao University, Shijiazhuang, China | Technion - Israel Institute of Technology, Haifa, Israel |
| | | | INFLUENCE OF MICROSTRUCTURE ON U02 CREEP BEHAVIOR: AN EBSD STUDY OF GRAIN FRAGMENTATION |
| 19.30 | | | Mariem Ben Saada ¹² , Xavière ILTIS¹, Nathalie GEY², Audrey MIARD¹, Philip GARCIA¹, Benoit BEAUSIR², Nabila MALOUFI² |
| | | | ¹ CEA, DEN, DEC, Cadarache, 13108 Saint-Paul-Lez-Durance, France, ² Laboratoire d'Etude des Microstructures et de Mécanique des Matériaux (IEM3), UMR CNRS 7239, Université de Lorraine, 54045 Metz Cedex 1, France |



| Symposium | A1 2017 | E2 | E3 |
|---------------|--|--|--|
| Room | CR II Hall/M2 | CR III Hall/M2 | Rehearsal Room 5.17/M1 |
| Session Title | Hydrogen storage and production | Supercapacities / Electron microscopy | Photovoltaics-Silicon |
| Chairperson | Maria Luisa Di Vona, Bogdan Kuchta, Ioannis Kallistis, Toshiyuki Mori | T. Djenizian | Patricia Carvalho |
| | AN INNOVATIVE PLASMA MULTI-LAYERED DEVICE FOR HYDROGEN PRODUCTION | PERFORMANCE OF CARBON-BASED SUPERCAPACITORS WITH INERT AND REDOX ELECTROLYTES | HIGHLIGHT KYROPOULOS TECHNIQUE, A TOP SEEDING PROCESS TO GROW UNCON- FINED CONTROLLED SQUARE INGOTS OF MONOCRYSTALLINE SILICON |
| 17.30 | Phd Student Arnaud Joët KINFACK LEOGA!, PhD Student Loraine YOUSSEF!, DR Stéphanie ROUALDES!, DR Vincent ROUESSAC!, PR André AYRAL! | <u>Pietro Stait</u> ¹ , Alessandra Carbone ¹ , Irene Gatto ¹ , Antonino Brigandi ¹ , Francesco Lufrano ¹ | Dr Ahmed Nouri ¹ , Dr Guy Chichignoud ¹ , Pr Yves Delannoy ¹ , <u>Pr Kader Zaïdat</u> ¹ |
| | ¹Institut Européen des Membranes (IEM, UMR5635) - ENSCM, UM, CNRS, Université de Montpellier, CC047, 2 Place Eugène Bataillon, 34095, Montpellier, France | 1CNR-ITAE Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano", Messina, Italy | ¹ Univ. Grenoble Alpes, CNRS, Grenoble INP*, SIMaP, Grenoble, France |
| | INFLUENCE OF LONG PERIOD STACKING ORDERED (LPSO) PHASE FRACTION ON HYDROGEN STORAGE IN EXTRUDED MAGNESIUM RARE-EARTH ALLOYS | GRAPHENE NANOPLATELET BASED ELECTRODE MATERIALS FOR ENERGY STORAGE APPLICATIONS | 3D NANOHOLES IN SI SOLAR CELLS EMITTERS FOR LIGHT HARVESTING |
| 17.50 | Kyle Nicholson ¹ , Prof. Rimma Lapovok ¹ , Dr. Chunjie Xu ² , Prof. Eugen Rabkin ³ , Prof. Peter Hodgson ⁴ | Aris Amplianitis', Athanasios Masouras ³ , Dr Katerina Kouravelou ² , Zampia Kalogrīdi ² , Dr. Athanasios Baltopoulos ² , Dr. Antonios Vavoulio- tis ¹² , Dr Stavros Tsantzalis ³ , Prof. Vassilios Kostopoulos ³ , Dr. Ugo Lafont ⁴ | Dr. Rosaria A. Puglisi¹, Dr. Antonino La Magna¹ |
| | Institute for Frontier Materials, Deakin University, Geelong, Australia, ² School of Materials Science & Engineering, Xi'an University of Technology, Xi'an, China, 'Department of Materials Science and Engineering, Technion Israel Institute of Technology, Haifa, Israel, 'Office of DVC (Research), Deakin University, Geelong, Australia | ¹ PLEIONE ENERGY S.A., Althens, Greece, ² ADAMANT COMPOSITES Ltd, Patras, Greece, ³ APPLIED MECHANICS & VIBRATIONS LABORATORY, Dept. Mechanical and Aeronautics Engineering, Polytechnical School, University of Patras, Patras, Greece, ⁶ EUROPEAN SPACE AGENCY (ESA), Noordwijk, Netherlands | ¹ Consiglio Nazionale Delle Ricerche - IMM, Catania, Italy |
| | A NOVEL STRATEGY BASED ON VERY-HIGH ENERGY PLASMA DEPOSITION FOR FABRICATION OF HIGHLY PEC ACTIVE THIN HEMATITE PHOTOANODES | AN ORIGINAL MATERIAL ENGINEERING STRATEGY FOR THE SYNTHE- SIS OF SUPERCAPACITIVE MANGANESE COBALT OXIDE MATERIALS WITH ENHANCED PERFORMANCES | SI POWDER BASED STRUCTURES FOR LOW-COST PV: HOT PRESSING SINTERED OR THERMAL SPRAY PROCESSED STRUCTURES RECRYSTALLIZED BY LASER TREATMENTS |
| 18.10 | Dr. Stepan Kment ¹ , Dr. Zdenek Hubicka ² , Dr. Jiri Tucek ¹ , Prof. Patrik Schmuki ¹³ , Prof. Radek Zboril ¹ | Doctorate Céline Tang ¹²³ , Dr Domitille Giaume ²³ , Pr Liliane Guerlou-Demourgues ¹³ | Dr. Guobin Jia ¹ , Dr. Michalis Vardavoulias ² , Dr. Amin Azar ³ , Dr. Gaute Stok- kan ⁴ , Dr. Wilhelm Dall ⁴ , Dr. Martin Syvertsen ⁴ , Dr. Jonathan Plentz ¹ , Dr. Gudrun Andra ¹ , Dr Thomas Kaden ⁵ , <u>Dr. Alexander Ulyashin³</u> |
| | 'Regional Centre of Advanced Technologies and Materials, Faculty of Science, Palacky University Olomouc, Olomouc, Czech Republic, 'Department of Low Temperature Plasma, Institute of Physics of the ASCR, Prague, Czech Republic, 'Department of Materials Science and Engineering, University of Erlangen. Auremberg, Erlangen, Germany | ICMCB, Bordeaux, France, ² IRCP, Paris, France, ³ RS2E, Paris, France | ¹ PHT, Jena, Germany, ² Pyrogenesis, Lavrion, Greece, ² SINTEF, Oslo, Norway, ⁴ SINTEF, Trondheim, Norway, ² THM, Freiberg, Germany |
| | MICROSTRUCTURAL AND HYDROGEN STORAGE PROPERTIES IN HEAVILY DEFORMED ZK60 + 2.5 wt.% MM ALLOY PROCESSED BY ACCUMULATIVE ROLL BONDING | LARGE-AREA, ALL-SOLID AND FLEXIBLE ELECTRIC DOUBLE LAYER CAPACITORS BASED ON CNT FIBER ELECTRODES AND POLYMER ELECTROLYTES. | HIGHLIGHT FIXED CHARGE DIELECTRICS FOR SURFACE PASSIVATION OF SOLAR CELLS |
| 18.30 | Dr. E.P. Silva ¹² , Dr. D.R. Leiva ² , Dr. H. C. Pinto ³ , Dr. W.J. Botta ² , <u>Dr. Ricardo Floriano</u> ⁷ | <u>Evgeny Senokos</u> ¹, Victor Reguero¹, Laura Cabana¹, Jesus Palma², Rebeca Marcilla², Juan Jose Vilatela¹ | Professor / Center Director Erik Stensrud Marstein ¹ , Ms Therese Stokkan ^{1,2} , Ms Heidi Tønnesson ^{1,3} , Dr Halvard Haug ¹ |
| | 'Faculty of Applied Sciences, State University of Campinas, Limeira, Brazil, 'Department of Materials Engineering, Federal Uni- versity of São Carlos, São Carlos, Brazil, 'Department of Materials Engineering, University of São Paulo, São Carlos, Brazil | ¹IMDEA Materials Institute, Getafe, Spain, ²IMDEA Energy Institute, Móstoles, Spain | Ilnstitute for Energy Technology (IFE). Kjeller. Norway. 2.Justervesenet. Kjeller. Norway. 3NMBU (Norwegian University of Life Sciences). Aas. Norway |
| | Zno nanowires covered with 2-d transition metal di-chal- cogenides for solar-mediated photoelectrochemical water splitting | BEYOND ELECTROCHEMICAL ANALYSIS: MULTI-SCALE MICROSCOPY OF LIBS IN 2D, 3D, AND 4D | CVD SILICON FILM GROWTH ON DUST SUBSTRATE: THE IMPACT OF THE SUBSTRATE GRANULOMETRY |
| 18.50 | PhD candidate Aikaterini Govatsi¹, PhD candidate Aspasia Antonelou¹, Dr Stylianos Neophytides¹, Dr Spyros Yannopoulos¹ | <u>Jeff Gelb</u> ¹ , Stefanie Freitag ² , Dr. Leah Lavery ¹ , Luke Hunter ¹ , Dr. Lars-Oliver Kautschor ³ , Dr. Arno Merkle ¹ | Ms. Filipe Serra¹, Dr. José Silva¹, Dr. António Vallêra², Prof. João Serra ¹ |
| | 'Foundation for Research and Technology Hellas — Institute of Chemical Engineering Sciences (FORTH/ICE-HT), P.O. Box 1414, GR-26504, Rio-Patras, Greece, Patras, Greece | ¹ Carl Zeiss Microscopy, Pleasantan. United States, ² Carl Zeiss Microscopy, Munich, Germany, ³ Carl Zeiss Microscopy, Oberkochen, Germany | 'Instituto Dom Luiz - Faculdade De Cièncias Universidade Lisboa, Lisboa (lisbon, Portugal), Portugal, ² SDSIL, Lisboa (Lisbon, Portugal), Portugal |
| | SPUTTER-DEPOSITED NANOSTRUCTURED METAL-OXIDE FILMS FOR HYDROGEN GAS SENSING | 3D MICROSTRUCTURE OF BATTERY ELECTRODES ANALYZED BY 3D IMAGING | RECENT ADVANCES ON SOLAR CELL PERFORMANCE FROM STRESS INDUCED EXFOLIATED THIN SILICON FOILS |
| 19.10 | Dr. Stanislav Haviar', Markéta Fialová¹, Šárka Batková¹, Dr. Jiří Čapek¹, Radomír Čerstvý¹, Tomáš Duchoñ² | <u>Eric Maire</u> ', Victor Vanpeene ¹ , Aurelien Etiemble ¹ , Lionel Roue ² , Bernard Lestriez ² , Thierry Douillard ¹ | Dr Pierre Bellanger ² , Dr. Abdelilah Slaoui ² , Dr Albert Minj ² , Prof JM Serra ¹ |
| | ¹ University of West Bohemia, Pilsen, Czech Republic , ² Charles University, Prague, Czech Republic | ¹ Insa Lyon - Mateis Lab, Villeurbanne, France, ² INRS , Varennes, Canada, ³ IMN, Nantes, France | University of Lisbon, Lisbon, Portugal, ² U. Strasbourg, ICube – Laboratory of Engineering, Computer Science and Imagery, Strasbourg, France |
| | | | CRYSTALLIZATION OF THIN SI LAYERS DEPOSITED ON LOW-COST SI SUBSTRATES BY E-BEAM |
| 19.30 | | | Dr. Alexander Ulyashin ¹ , Dr. Guobin Jia ² , Dr. Amin Azarl , PhD Runar Dahl-Hansen ¹ , Dr. Marit Stange ¹ , Dr. Tor Olav Sunde ¹ , Dr. Jonathan Plentz ² , Dr. Gudrun Andrae ² , Dr. Martin Syvertsen ² , Dr. Fritz Falk2, Dr. Safae Aazou ⁴ , PhD Zakaria Langhfou ⁴ , Prof. Zouheir Sekkat ⁴ |
| | | | ¹ Sintef, Oslo, Norway, ² IPHT, Jena, Germany, ² SINTEF, Trondheim, Norway, ⁴ Mascir, Rabat, Morocco |
| | | | |



| Symposium | E4 | FI | Н1 |
|---------------|--|--|--|
| Room | Conference Room 2/M1 | 3-20/M1 | I –16/M1 |
| Session Title | Plasma Facing Materials | Ceramics: degradable and inert. Magnesium alloys | Modeling of Next Generation Magnetic Materials |
| Chairperson | Thierry Angot | Daniel Arcos | Scott McCall |
| | HIGHLIGHT EVOLUTION OF MICROSTRUCTURE OF TUNGSTEN UNDER IRRADIATION WITH TUNGSTEN IONS | MONITORING CALCIUM PHOSPHATES DURING RESORPTION: AN ORIGINAL METHODOLOGY | KEYNOTE/INVITED BUILDING MATERIALS SCIENCE FOR HIGH-PERFORMANCE PERMANENT MAGNETS ON ELEMENTS STRATEGY |
| 17.30 | Dr Emmanuel Autissier ¹ , Dr M-F Marie-France Barthe ¹ , Dr Pierre Desgardin ¹ , Dr Cécile Genevois-Mazellier ¹ , Dr Brigitte Decamps ² , Dr Robin Schaublin ³ , Yves Serruys ⁴ | Marta Gallo ¹ , Solène Tadier ¹ , <u>Sylvain Meille</u> ¹ , Jérôme Chevalier ¹ | |
| | ¹CEMHTI CNRS, Orléans, France, ²CSNSM, Orsay, France, ³ETH, Zürich , Switzerland, ⁴SRMP/ CEA, Gif/yyette, France | 1Université Lyon, INSA Lyon, MATEIS, UMR CNRS 5510, Villeurbanne, France | Dr. Satoshi Hirosawa¹ |
| | SPATIAL DISTRIBUTIONS OF DEFECTS IN THE PRIMARY RADIATION DAMAGE IN W | HOLLOW MESOPOROUS BIOACTIVE GLASS NANOPARTICLES FOR DUAL RELEASE OF BIOLOGICALLY ACTIVE IONS AND BIOMOLECULES | |
| 17.50 | Andrea Sand ^{1,2} , Daniel Mason ¹ , Xiaoou Yi ³ , Kai Nordlund ² , Sergei Dudarev ¹ | Kai Zheng¹, Dr Preethi Balasubramanian¹, Francesca Ciraldo¹, Dr Georgia Charalambopoulou², Dr Theodore Steriotis2, Dr Aldo Boccaccini¹ | ¹ National Institute for Materials Science, Tsukuba, Japan |
| | CCFE, UK, ² University of Helsinki, Finland, ² School of Materials Science and Engineering, University of Science and Technology Beijing, China | 'Institute of Biomaterials, University of Erlangen-Nuremberg, Erlangen, Germany, 'Institute of Nanoscience and Nanotechnology, National Center for Scientific Research "Demokritos", Greece | |
| | TUNGSTEN OXIDE THIN FILMS: STRUCTURAL PROPERTIES AND PLASMA INTERACTION | IN-VITRO EVALUATION OF BIOACTIVE AND BIODEGRADATION PROPERTIES OF MESOPOROUS ZnO ARCHITECTURES | HIGHLIGHT CALCULATION OF THE MAGNETIC PROPERTIES OF Fe-BASED ALLOYS |
| 18.10 | Dr Céline Martin¹, Dr Younes Addab¹, Dr Hussein Hijazi¹, Dr M.E. Bannister², Dr Fred Meyer², Dr Cédric Pardanaud¹, Dr Martiane Cabié³, Dr Madaline Rusu⁴, Prof. Pascale Roubin¹ | Dr. Marco Laurenti ¹ , Prof. Chiara Vitale Brovarone ¹ , Prof. Valentina Cauda ¹ | <u>Dr. Hiroshi Ohtani</u> ¹ , Dr. Masanori Enoki ¹ |
| | ¹ Aix-Marseille Univ., CNRS, PIIM, Marseille, France, ² Physics Division, Oak Ridge National Laboratory, Oak Ridge, USA, ³ Aix-Marseille Univ.; CP2M, Marseille, France, ⁴ National Institute of R&D for Optoelectronics INOE 2000, Ufov, Romania | ¹ Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129, Torino, Italy | ¹IMRAM, Tohoku University, Sendai, Japan |
| | ADVANCED X-RAY IMAGING METHODS FOR THE CHARACTERIZATION OF THE STRUCTURAL INTEGRITY AND OPERATION OF THE PLASMA FACING COMPONENTS | STRENGTHENING OF ZIRCONIA SCAFFOLDS WITH INFILTRATED 58S BIOACTIVE GLASS | HIGHLIGHT SEARCH FOR NEW RARE EARTH-BASED ALLOYS |
| 18.30 | PhD Ion Tiseanu¹, PhD Andrei Galatanu², PhD Teddy Craciunescu¹, MSc Cosmin Dobrea¹, MSc Mihail Lungu¹, MSc Adrian Sima¹ | Dr. Joana Mesquita-guimaraes ^{1,2} , Lizandra Ramos², Dr. Júlio Souza ^{2,1} , Prof Bruno Henriques², Prof Márcio Fredet², Prof Aldo Boccaccini+, Prof Filipe Silva¹ | Dr. Patrice Turchi ¹ , Dr. Aurélien Perron ¹ , Dr. Per Söderlind ¹ , Dr. Alexander Landa ¹ , Dr. Vincenzo Lordi ¹ |
| | 'National Institute for Lasers. Plasma and Radiation Physics (INFLPR), Bucharest-Magurele, Romania. ² National Institute of Materials Physics, Bucharest-Magurele, Romania | '1Center for Microelectromechanical Systems (CMEMS-UMinho), University of Minho, Guimarães, Portugal, '2Department of Me- chanical Engineering (EMC), Federal University of Santa Catarina (UFSC), Florianápolis, Brazil, '3 | 'Lawrence Livermore National Laboratory, Livermore, United States |
| | RETENTION AND RELEASE OF HYDROGEN ISOTOPES IN TUNGSTEN PLASMA FACING COMPONENTS: THE ROLE OF GRAIN BOUNDARIES AND THE NATIVE OXIDE LAYER FROM A JOINT EXPERIMENT-SIMULATION INTEGRATED APPROACH | EFFECT OF MG ALLOYS ON ATDC5-CELLS CHONDROGENIC DIFFERENTIATION | THERMODYNAMICS OF THE SmCo5 MAGNET DOPED WITH Fe AND Ni: AB INITIO STUDY |
| 18.50 | E.A. Hodille ¹ , F. Ghiorghiu ² , Y. Addab ² , A. Založnik ² , M. Minissale ²⁴ , Z. Piazza ^{2,5} , C. Martin ² , T. Angot ² , L. Gallais ⁴ , MF. Barthe ⁶ , C.S. Becquart ² , S. Markeli ³ , J. Mougenot ² , C. Grisolia ¹ , R. Bisson ² | <u>Dr Bérengère Luthringer</u> '. Adela Helvia Adela Martinez-Sanchez ⁱ , Prof. Regine Willumeit-Römer ¹ | <u>Dr. Alexander Landa</u> ¹ , Dr. Per Söderlind ¹ , Dr. Patrice Turchi ¹ |
| | 'CEA, IRFM, Saint-Paul-lez-Durance, France, 'Aix-Marseille Univ, CNRS, PlM, Marseille, France, 'Joře Stefan Institut, Ljubljana, Slovenia, 'Aix-Marseille Univ, CNRS, Centrale Marseille, Institut Fresnel, Marseille, France, 'Univ. Lille, CNRS, INRA, ENSCL, UMR 8207, UMET, Unité Matériaux et Transformations, Litle, France, 'CNRS, CEMHTI UPR 3079, Université d'Orléans, Orléans, France, 'SSPM, CNRS, Université Paris 13, Sorbonne Paris Cité, Villetaneuse, France | 'Helmholtz-Zentrum Geesthacht, Geesthacht, Germany | 'Lawrence Livermore National Laboratory, Livermore, United States |
| | SPATIAL DEPENDENCE OF TRANSMUTATION RATES IN A FUSION ENVIRONMENT: THE ROLE OF WATER-COOLING IN ENHANCED TRANSMUTATION RATES IN TUNGSTEN | COMPUTATIONAL MODEL FOR THE DESIGN OF ORDERED SCAFFOLDS VARYING STRUCTURAL PARAMETERS | HIGHLIGHT MAXIMUM LIKELIHOOD REALIZATION FOR THE IMAGE OF MAGNETIC DOMAIN STRUCTURES IN RMC METHOD WITH THE REPLICA EXCHANGE SCHEME |
| 19.10 | Mark Gilbert ¹ , Jean-Christophe Sublet ¹ , Sergei Dudarev ¹ | PhD. Student - Mechanical and Mechatronics Engineering Viviana Marcela Posada Perez', Mechanical Engineering student Maria Camila Velasquez Orozco', Mechanical Engineering student Juan Andres Cardona Usuga', Associate Professor Patricia Fernandez-Morales', Associate Professor Juan Fernando Ramirez Patiño' | <u>Dr Chiharu Mitsumata</u> ¹, Dr Maki Tokii², Dr Kanta Ono³ |
| | ¹CCFE, Abingdon, United Kingdom | 'Universidad Nacional De Colombia, Medellin, Colombia, 'Universidad Pontificia Bolivariana, Medellin, Colombia | National Institute For Materials, Tsukuba, Japan. University of Tsukuba, Tsukuba, Japan. High Energy Accelerator Research Organization (KEK), Tsukuba, Japan |
| 19.30 | | | |
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| Symposium | A1 2017 | А7 | B1 | B2 |
|---------------|---|--|--|---|
| Room | M0YSA Hall/M2 | I-08/M1 | Conference Room 3/M1 | Aimilios Riadis Hall/M2 |
| Session Title | Bio-nano Interface III | Energy related Materials | Advanced High Strength Steels IV | Magnesium |
| Chairperson | Aikaterini Dendrinou-Samara | Peter Schaaf | Wieslaw Swiatnicki | Norbert Hort |
| | HIGHLIGHT MULTIMODAL METAL OXIDE NANOPARTICLES AND THEIR BIO-INTERACTIONS | KEYNOTE/INVITED SYNTHESIS AND CHARACTERIZATION OF Li2sn03 ELONGATED MICRO- AND NANOSTRUCTURES | INVESTIGATION OF STRETCH-FLANGEABILITY OF 0&P PROCESSED MEDIUM MN STEEL BY HOLE EXPANSION TEST | KEYNOTE/INVITED MICROSTRUCTURE AND TEXTURE DESIGN IN COST-EFFECTIVE MAGNESIUM SHEETS FOR AUTOMOTIVE APPLICATION |
| 11.00 | Magali Lavenas ¹ , Dr Marina Simon ² , Dr Quentin Le Trequesser ¹ , Dr Guillaume Devès ² , Dr Philippe Barbe- ret ² , Dr Herve Seznec ² . <u>Dr Marie-Helene Delville</u> 1 | | <u>Mr. Jihoon Kim</u> ¹, Dr. Eunjung Seo¹, Dr. Singon Kang¹, Dr. Bruno C. De Cooman¹ | |
| | CNRS, Université de Bordeaux, ICMCB, UPR9048., Pessac, France, 2CNRS Univ. Bordeaux, CENBG, UMR 5797, Gradignan, France | <u>David Maestre</u> ', Miguel García-Tecedor', Ana Cremades', Javier Piqueras' | ¹ Graduate Institute Of Ferrous Technology, Pohang, South Korea | Prof. Dr. Karl Ulrich Kainer ¹ , Dr. Jan Bohlen ¹ , Dr. Sangbong Yi ¹ , Dr. Dietmar Letzig ¹ |
| | HIGHLIGHT WHEN COLLOIDAL NANOCRYSTAL CLUSTERS ENABLE MULTIMODAL DIAGNOSIS AND THERAPY | | MICROSTRUCTURAL EVOLUTION DURING HIGH- TEMPERATURE PARTITIONING OF A MEDIUM-Mn Q&P STEEL | |
| 11.20 | <u>Dr Alexandros Lappas</u> ¹ | ¹ Dpto. Física de Materiales, Facultad de Cc. Físicas, Universidad Complutense de Madrid, Madrid, Spain | S Ayenampudi ¹ , C Celada-Casero ¹ , J Sietsma ¹ , M Santofimia ¹ | 'Helmholtz-Zentrum Geesthacht. Geesthacht, Germany |
| | ¹ Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Vassilika Vouton, 71110 Heraklion, Greece | | ¹ Department of Materials Science and Engineering, Delft University of Technology, Mekelweg ² , 2628 CD, Delft. The Netherlands | |
| | HIGHLIGHT COLLOIDAL NANOPARTICLES FOR MRI AND HYPERTHERMIA TREATMENT | LARGE AREA NANOSTRUCTURED MATERIALS FOR RENEWABLE ENERGY APPLICATIONS | EFFECT OF STRESS ON QUENCHED AND PARTITIONING PROCESS EVALUATED BY DEFORMATION DILATOMETER | HIGHLIGHT THE CONTINUED QUEST FOR LOW-TEMPERATURE FORMABILITY IN Mg ALLOYS: HISTORICAL DEVELOPMENTS AND FUTURE OPPORTUNITIES |
| 11.40 | Prof Maria Casula¹, Dr Claudio Sangregorio², Prof Alessandro Lascialfari³, Dr Paolo Arosio³, Prof. Pasquina Marzola⁴, Dr. Giamaica Conti⁴ | Panos Datskos¹, Georgios Polizos¹, Barton Smith¹, Fred List¹ | <u>Dr. Javier Hidalgo</u> ¹ , Dr. Maria Jesus Santofimia ¹ | Prof. Suveen Mathaudhu¹ |
| | ¹ University Of Cagliari, Cagliari, ITALY, ² ICCOM CNR, Firenze, ITALY, ³ University of Milano, Milano, ITALY, ⁴ University of Verona, Verona, ITALY | ¹ Oak Ridge National Laboratory, Oak Ridge, United States | 'TU Delft, Delft, Netherlands | ¹ University Of California, Riverside, Riverside, United States |
| | MAGNETIC FERRITE NANOPARTICLES AND COLLOIDAL SUPERPARTICLES AS PLATFORMS FOR THERANOSTICS | CHARACTERIZATION OF OPV THIN FILMS AT THE NA- NOSCALE WITH BACKSCATTERED ELECTRON (BSE) IMAGING IN LOW VOLTAGE SCANNING ELECTRON MICROSCOPY (SEM) | EFFECT OF CARBIDE SIZE ON PHASE TRANSFORMATIONS IN ULTRA – FAST HEAT TREATMENT OF LOW ALLOYED STEEL | DEVELOPMENT OF TEXTURE CONTROL PROCESS FOR IMPROVING FORMABILITY OF MAGNESIUM ALLOY SHEET |
| 12.00 | Prof Catherine Dendrinou-Samara | Ms. Aránzazu Garitagoitia Cid ^{1,2} , Ms. Mona Sedighi ¹ , Dr. Markus Loeffler ¹ , Prof. Dr. Ehrenfried Zschech ^{1,2} | DiplEng. Marianthi Bouzouni ^{1,2} Dr Ing. Spyros Papaefthymiou ¹ | Dr. Se-jong Kim¹, Dr. Daeyong Kim¹, Dr. Jinwoo Lee¹, Dr. Young-Seon Lee¹ |
| | 'Chemistry Department, Aristotle University Thessaloniki, Thessaloniki, Greece | ¹ Dresden Center for Nanoanalysis (DCN), Technical University Dresden, Dresden, Germany, ² Fraunhofer Institute for Ceramic Technologies and Systems - Materials Diagnostics (IKTS-MD), Dresden, Germany | 'National Technical University Of Athens, 9, Her. Poly- techniou str., Zografos, Greece, ZELKEME S.A., 56th km Athens – Lamia National Road Oinofyta, Greece | 'Korea Institute Of Materials Science, Changwon, South Korea |
| | SYNTHESIS OF SPHERICAL AND FACETED T-Fe203 NANOPARTICLES AND THEIR ENCAPSULATION IN MESOPOROUS SIO2 NANO SHELLS | HIGHLIGHT GREEN CO2 PROCESSING FOR MANIPULATING STRUCTURES AND ELECTRICAL PROPERTIES OF ORGANIC PHOTOVOLTAIC DEVICES | PRECIPITATION HARDENING STEEL FOR ELEVATED TEMPERATURE APPLICATIONS | EFFECT OF PROCESS PARAMETERS ON RECRYS- TALLIZATION AND TEXTURE EVOLUTION OF COLD- ROLLED Mg-Al-Zn-Ca-Y ALLOY SHEETS |
| 12.20 | Mr. Shabin Mohammed ¹ , Dr. Georgia Basina* ¹ , Dr. Balasubramanian Vaithilingam ² , Mr. Samuel Stephen ³ , Dr. Yasser Al Wahedi* ¹ | Doctor Levent Sendogdular ¹ , Doctor Naisheng Jiang ² , Doctor Maya Endoh ² , Professor Tadanori Koga ² , As- sistant Professor Bulent Akgun ² , Doctor Sushii Satija ⁴ , Doctor Masafumi Fukuto5, Doctor Chang-Yong Nam ⁵ | Group Technical Expert Jan-Erik Andersson ¹ | Ms. Su Mi Jo ¹ , Mr. Yohan Go ¹ , Mr. Jong Il Kim ² , Mr. Bong Sun You ^{1,2} , Mr. Young Min Kim ^{1,3} |
| | ¹ Department of Chemical Engineering, The Petroleum Institute, P.O. Box 2533, UAE, Abu Dhobi, United Arab Emirates, ² Stakreer Research Center, Abu Dhobi Dil Refining Company (TAKREER), P.O. Box. 3593, UAE, Abu Dhobi, United Arab Emirates, ² ADNOC Research & Innovation Center, Petroleum Institute, PO Box 2533, UAE, Abu Dhobi, United Arab Emirates | ¹ Erciyes University, Kayseri, Turkey, ² Stony Brook University, Stony Brook, USA, ³ Bagazici University, Istanbul, Turkey, ⁴ NIST, Gaithersburg, USA, 5BNL, Upton, USA | ¹Ovako Sweden AB, Hafors, Sweden | ¹ Korea University of Science and Technology, Daejeon, South Korea, ² Chungnam National University, Daejeon, South Korea, ³ Korea Institute of Materials Science, Changwon, South Korea |
| | | | EFFECT OF RUTHENIUM ADDITIONS ON THE CORRO- SION AND MECHANICAL PROPERTIES OF THE WELD METAL OF 316L STAINLESS STEELS. | EFFECT OF RECRYSTALLIZATION NUCLEATION SITES ON TEXTURE WEAKENING IN A MAGNESIUM ALLOY |
| 12.40 | | | Miss Bridget Zuma ¹² Dr J. W. van der Merwe ¹²³ | Dr. Dikai Guan ¹ , Prof. Mark Rainforth ¹ |
| | | | "University Of The Witwaterand, Johannesburg, South Africa, 'DST-NRF Centre of Excellence in Strong Mate- rials, Johannesburg, South Africa, 'Africa Materials Science and Engineering Network, Johannesburg, South Africa | ¹ University Of Sheffield, Sheffield, United Kingdom |



| Symposium | B3 | В6 | B8 | B10 |
|---------------|--|---|---|---|
| Room | CR I Hall/M2 | I-11/M1 | Conference Room 1/M1 | Maurice Saltiel Hall II/M2 |
| Session Title | Polycrystalline Ni Base Superalloys I | Advanced Composites | Phase Stability | Corrosion & Wear I |
| Chairperson | G. Eggeler | Aravind Dasari | Uwe Glatzel | Wolfram Fürbeth |
| | COMPUTATIONAL DESIGN OF NI-BASED SUPERALLOYS TAKING INTO CONSIDERATION THE MICROSTRUCTURE EVOLUTION | A RESEARCH ON ALUMINA-HYDROXYAPATITE- BIOACTIVE GLASS COMPOSITE STRUCTURES | KEYNOTE/INVITED THERMODYNAMIC STABILITY OF THE SOLID SOLUTION IN THE Cr-Mn-Fe-Co-Ni SYSTEM | IMPACT OF THE ALLOYING ELEMENTS COPPER, MANGANESE, MAGNESIUM, AND SILICON ON THE CORROSION BEHAVIOR OF ALUMINUM MATERIALS IN ETHANOL BLENDED GASOLINE FUELS |
| 11.00 | Mr. Hao Yu¹. Dr. Wei Xu². Dr. Srbrand van der Zwaag³ | PhD Candidate Azade Yelten ¹ , Dr. Suat Yilmaz ¹ | | DIPLING. RÜDIGER REITZ!, DrIng. Georg Andersohn!, Prof. DrIng. Matthias Oechsner! |
| | 'Novel Aerospace Materials group. Faculty of Aerospace Engineering. Delft University Of Technology. Delft, the Netherlands. 'State Key Laboratory of Rolling and Automation. Northeastern University. Shen Yang. China. 'Novel Aerospace Materials group. Faculty of Aerospace Engineering. Delft University Of Technology. Delft. the Netherlands | 1Istanbul University, Department of Metallurgical and Materials Engineering, 34320 Avcilar, Istanbul, Turkey | Dr Mathilde Laurent-brocq', Guillaume Bracq', Dr Loïc Perrière', Rémy Pirès', Pr Ivan Guillot', Dr Jean-Marc Joubert' | 'Technische Universität Darmstadt, Institute for Materials Technology (IfW), Darmstadt, Germany |
| | THE DEVELOPMENT OF NICKEL-BASED SUPER- ALLOYS STRENGTHENED BY GAMMA PRIME AND GAMMA DOUBLE PRIME PRECIPITATES | NUMERICAL INVESTIGATION OF THE GRAIN GROWTH IN POLYCRYSTALLINE FIBERS AND GRAIN BOUND- ARY DIFFUSION | Institut de Chimie et des Matériaux de Paris Est, UMR 7182, CNRS — Université Paris-Est, Thiais, France | CORROSION POTENTIAL CORRELATIONS WITH IRREGULAR PLASTIC DEFORMATION |
| 11.20 | Paul Mignanelli ¹ , Nicholas Jones ¹ , Ed Pickering ¹² , Olivier Messé ¹ , Catherine Rae ¹ , Mark Hardy ³ , Howard Stone ¹ | Julia Kundin¹ | | Associate Professor Ahmet Yilmaz ¹ |
| | 'University of Cambridge. Cambridge. UK. 'University of Manchester, Manchester. UK. 'Rolls-Royce plc. PO BOX 31, Derby, UK | ¹ Ruhr University Bochum, Germany | | ¹Yalova University, Istanbul. Turkey |
| | STRENGTHENING OF Y PRECIPITATES BY Y PRECIPITATES IN Ni-AI-TI SUPERALLOYS | INSTABILITY OF MRE FILM—SUBSTRATE BLOCK UNDER MAGNETOMECHANICAL LOADINGS | A "HIGH ENTROPY" ALLOY DATABASE TCHEA2 AND ITS APPLICATION IN ALLOY DESIGN | CHARACTERIZATION OF PLASMA CARBURIZED LAY- ERS FORMED ON AUSTENITIC STAINLESS STEEL |
| 11.40 | Markus Kolb ¹ , Vivien Gumbert ¹ , Dr. Steffen Neumeier ¹ , Prof. Mathias Göken | Erato Psarra¹, Konstantinos Danas¹, Laurence Bodelot¹ | Dr. Hai-Lin Chen ¹ | Eng. Ana Gasco¹, Dr. Grégory Marcos², Dr. Prof. Euge- nia Dalibon¹, Dr. Aurore Andrieux², Dr. Eng. Lisandro Escalada3, Dr. Cedric Noel², Dr. Lic. Sonia Brühl¹, Dr. Eng. Silvia Simison², UL-Prof. Thierry Czerwiec² |
| | 'University Erlangen-Nürnberg, Erlangen, Germany | 1Ecole Polytechnique, Paris, France | [†] Thermo-Calc Software AB, Solna, Sweden | 'Universidad Tecnológica Nacional, Concepción del Uruguay, Argentina, 'Institut Jean Lamour, Nancy, France, 'Instituto de Investigación en Ciencia y Tecnología de Materiales, Mar del Plata , Argentina |
| | MICROSTRUCTURE — PROPERTY STUDY OF NICOCRAL-X (X = Hf, Si, Ta, Y) ALLOYS | LUMINESCENT MECHANOCHROMIC AND THERMO- CHROMIC MATERIALS BASED ON COPPER IODIDE COMPOUNDS | COMBINING THERMODYNAMIC MODELING AND 3D PRINTING OF ELEMENTAL POWDER BLENDS FOR HIGH-THROUGHPUT INVESTIGATION OF HIGH-ENTROPY ALLOYS – TOWARDS RAPID ALLOY SCREENING AND DESIGN | EXAMINATION OF THERMO-PHYSICAL PROPERTIES AND STRAIN RATE BEHAVIOUR OF HONEYCOMB ALLOYS TO STUDY THE EFFECT OF RUB IN IN OUTER AIR SEALS |
| 12.00 | Dr Eleftheria Karagianni ¹ , Professor Of Metallurgy and Posco Chair Panagiotis (Panos) Tsakiropoulos ¹ | <u>Dr Sandrine PERRUCHAS</u> ^{1,2} , Brendan HUITOREL ¹ , Dr Thierry GACOIN ¹ | Dr. Christian Haase¹, Florian Tang². Markus B. Wilms3, Dr. Andreas Weisheit³, Dr. Bengt Hallstedt² | Sonun Ulan kyzy¹, Oliver Munz², Tim Fischer3, Prof. DrIng. Uwe Glatzel¹ |
| | 1The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street, Sheffield S1 3JD, United Kingdom | ¹Institut des Matériaux Jean Rouxel (IMN), Université de Nantes - CNRS, Nantes, France, ²Laboratoire PMC, Ecole Polytechnique-CNRS, Palaiseau, France | Department of Ferrous Metallurgy, RWTH Aachen University, Aachen, Germany, Institute for Materials Applications in Mechanical Engineering, RWTH Aachen University, Aachen, Germany, Fraunhofer Institute for Laser Technology ILT, Aachen, Germany | Metals and Alloys, University of Bayreuth, 95447 Bayreuth, Germany, 'Institute of Thermal Turboma- chinery, Karlsruhe Institute of Technology, '76131 Karlsruhe, Germany, 'Institute of Materials Science and Mechanics of Materials, Technical University of Munich, 85748 Garching b. München, Germany |
| | MICROSTRUCTURAL CHARACTERIZATION OF PLAS- MA NITRIDED Y' AND Y' PHASES IN NICKEL-BASED SUPERALLOYS | MICROSTRUCTURE AND MECHANICAL PROPERTIES OF INFILTRATED TIB ² -STEEL COMPOSITES. | THE ROLE OF COMPOSITION ON THE CONSTITUENT PHASES OF (ALXTY)CFFCONI BASED QUINARY AND SENARY COMPOSITIONALLY COMPLEX ALLOYS | CORROSION BEHAVIOR OF AL-Cu (2024) FRICTION STIR WELDED JOINTS |
| 12.20 | Fadella Larek', Jean-Baptiste Dubois', Luc Pichon', Sébastien Chollet, Jonathan Cormier', Patrick Villechaise ² , Frédéric Danoix ³ , Raphaele Danoix ³ | Miss Helen Dilman ¹ , Mr. Or Rahamim ¹ , Prof. Shmuel Hayun ¹ , Prof. Naum Frage ¹ | Dr Nick Jones ¹ , Dr Paul Mignanelli ¹ , Dr Kathy Christo- fidou ¹ , Mr Antti Reponen ¹ , Dr Ed Pickering ² , Dr Howard Stone ¹ | Ms. Theano Examilioti ¹ , Mr. Dimitris Karanikolas ¹ , Na Li ² , Wenya Li ² , Prof. Stavros Kourkoulis ³ , Prof. Nikolaos Alexopoulos ³ |
| | Ilnstitut P' - UPR 3346/ University of Poitiers. France, 2Institut P' - UPR CNRS 3346/ ISAE-ENSMA, France, 3Groupe de Physique des Matériaux - UMR 6634 CNRS/ University of Rouen, France | 1Ben-gurion University of the Negev, Beer-sheva. Israel | 'University of Cambridge. Cambridge, UK, ² University of Manchester, Manchester, UK | "University Of Aegean, Chios, Greece, "State Key Laboratory of Solidification Processing, Xi an, China, "National Technical University of Athens, Athens, Greece |
| | PECULIARITIES OF STRUCTURE FORMATION IN NICKEL SUPERALLOYS AT THE RECOVERY POWDER LASER CLADDING | | PHASE COEXISTENCE AND CORROSION RESISTANCE OF Cr_xalfenico High Entropy Alloys: experi- mental and Theoretical Study | ON THE TRIBOCORROSION RESPONSES OF THREE STAINLESS STEELS |
| | Ph.D. Olga Klimova-korsmik ¹ , D.Sc., Prof. Gleb Turichin ² , PhD. Dtudent Rudolf Korsmik ¹ , Ph.D. Evgeniy Zemlyakov ¹ | | Dr Cieslak Jakub¹, Pof. Janusz Tobola¹, Dr Katarzyna Berent³, Dr Monique Calvo-Dahlborg³, Prof. Ulf Dahlborg³, Dr J Cornide3, Dr S Mehraban¹ | Ms Fatma Ben Saada ¹ , Ms Mariem Ben Saada ² , Prof Pierre Ponthiaux ² , Prof Khaled Elleuch ¹ |
| 12.40 | Peter The Great Saint-petersburg Polytechnic University, Saint-petersburg, Russian Federation, ² Saint-Petersburg State Marine Technical University, Saint-petersburg, Russian Federation | | 'AGH University of Science and Technology, Faculty of Physics and Applied Computer Science, Kraków, al. Mickiewicza 30, Poland, 'AGH University of Science and Technology, Academic Centre for Materials and Nanotechnology, Kraków, al. Mickiewicza 30, Poland, 'GPM-UMR6634-CNRS, University of Rouen Normandie, BP12, 76801 Saint-Etienne-du-Rouvray, France, 'College of Engineering, Swansea University Bay Campus, Swansea, SA1 800, UK | 'National Engineering School of Sfax, Sfax, Tunisia, ² CEA, Cadarache, France, ² Ecole Centrale Paris, Paris, France |



| Symposium | B11 | C1 | C4 | C10 |
|---------------|--|---|--|---|
| Room | Maurice Saltiel Hall III/M2 | Friends of Music Hall/M1 | Conference Room 4/M1 | F 319/M1 |
| Session Title | Hard Metals and Metal Matrix Composites | C1.2: Coatings deposition routes and novel characterization techniques 1/5 Deposition routes I | Additive Manufacturing of metals 1 | New SPD methods and new application areas of SPD |
| Chairperson | C. Tasan | R. Cremer, M. Bender | Livio Battezzati | S. Suwas and T. Grosdidier |
| 11.00 | KEYNOTE/INVITED DEFECT DENSITY AND FATIGUE BEHAVIOUR OF WC-CO HARD METALS AS A FUNCTION OF THEIR MICROSTRUCTURE | KEYNOTE/INVITED ENABLING MOBILITY FOR TOMORROW WITH SURFACE TECHNOLOGY | FATIGUE BEHAVIOR OF ADDITIVELY MANUFACTURED 316L (1.4404) WITH REGARD TO THE INFLUENCE OF THE BUILDING DIRECTION Dipling. Bastian Blinn¹, DrIng. Marcus Klein¹, Prof. DrIng. Tilmann Beck¹, M.Sc. Mathias Burkhart², Prof. DrIng. Jan C. Aurich¹ | KEYNOTE/INVITED SEVERE PLASTIC DEFORMATION OF OXIDES |
| | <u>Dr Thomas Klünsner</u> ¹ , Florian Zielbauer ¹ , Christian Gettinger ¹ , Dr Stefan Marsoner ¹ , Prof Tanja Lube ² , Prof. Reinhard Pippan ³ | <u>DrIng. Nazlim Bagcivan</u> ¹. Dr. Yashar Musayev², Dr. Edgar Schulz | Institute of Materials Science and Engineering, University of Kaiserslautern, Kaiserslautern, Germany, Institute for Manufacturing Technology and Production Systems, University of Kaiserslautern, Kaiserslautern, Germany | Dr. Kaveh Edalati ¹ , Dr. Hadi Razavi-Khosroshahi ² , Prof. Masayoshi Fuji ² , Prof. Zenji Horita ¹ |
| 11.20 | *Materials Center Leoben Forschung Gmbh (MCL). Leoben, Austria, *Montanuniversitäl Leoben, Institut für Struktur- und Funktionskeramik (ISFK). Leoben, Austria, *Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria | Director Coating Center, Competence Center Surface Technology, Schaeffler Technologies AG & Co. KG. Schaeffler, Germany, *Schaeffler Technologies AG & Co. KG. Industriestraße 1-3, Herzogenaurach, Germany | DIRECT METAL PRINTING (DMP) OF THE MARTENSITIC PRECIPITATION HARDENED STAINLESS STEEL 17-4 PH Ir. Karen Vloebergh ¹ | 'Kyushu University, Fukuoka, Japan, ² Nagoya Institute of Technology, Nagoya, Japan |
| | | | ¹ 3d Systems Leuven, Leuven, Belgium | |
| | EFFECT OF TEMPERATURE, LOADING FREQUENCY AND THE MICROSTRUCTURE ON THE VISCOELASTIC BEHAVIOR OF A NOVEL ALUMINUM METAL MATRIX COMPOSITE | CONTROLLED REACTIVE HIPIMS OF THERMO- CHROMIC VO2 FILMS AT A LOW DEPOSITION TEMPERATURE (300 °C) | STUDY OF THE PORE FORMATION ON STAINLESS STEEL BY SELECTIVE LASER MELTING MANUFAC- TURING PROCESS | MICROSTRUCTURE, MECHANICAL PROPERTIES AND ELECTRICAL CONDUCTIVITY OF THE AL ALLOY, SUBJECTED TO THE NOVEL SPD METHOD OF HIGH PRESSURE TORSION EXTRUSION |
| 11.40 | Dr. Jose I. Rojas¹, Prof. Subbarao Bathula Venkata Siva², Prof. Kanai Lal Sahoo³, Prof. Daniel Crespo⁴ | David Kolenatý ', Jaroslav Vlček ¹ , Tomáš Kozák ¹ , Jiří Houška ¹ , Radomír Čerstvý ¹ | Valérie Gunenthiram ¹ , Patrice Peyre ¹ , Matthieu Schneider ¹ , Morgan Dal ¹ , Frédéric Coste ¹ , Rémy Fabrro ¹ | Dr. Yulia Ivanisenko¹, Dr. Roman Kulagin¹, Aleksandr Sirotin², Dr. Maxim Murashkin²3 |
| 11.40 | Department of Physics — Division of Aerospace Engineering, Universiat Politècnica de Catalunya, Cas- telldefels, Spain, 'Department of Mechanical Engineering, Narasaraopeta Engineering College, Narasaraopet, India, 'Council of Scientific and Industrial Research (CSIR)-National Metallurgical Laboratory, Jamshedpur, India, 'Department of Physics, Universitat Politècnica de Catalunya, Castell- defels, Spain | ¹ Department of Physics and NTIS – European Centre of Excellence, University of West Bohemia, Plzeñ, Czech Republic | ¹PIMM Laboratory, UMR 8006 Arts et Métiers-CNRS- CNAM, 151 Bd de l'Hôpital, 75013 Paris, France | ¹ Institute of Nanotechnology, Karlsruhe Institute for Technology, Karlsruhe, Germany, ² Institute for Physics of Advanced Materials. Ufa State Aviation Technical University, Ufa, Russia, ² Laboratory for Mechanics of Bulk Nanomaterials, Saint Petersburg State University, Saint Petersburg, Russia |
| | MICROSTRUCTURAL STRENGTHENING OF AL-BASED COMPOSITES BY REACTION BETWEEN MATRIX AND REINFORCEMENT | PHASE FORMATION AND OXIDATION BEHAVIOUR OF CATHODIC ARC EVAPORATED Al1-x-yCrxFeY AND Al1-x-yCrxFey06 thin films | SPACE FLEXIBLE COMPONENTS: IMPROVEMENT OF FATIGUE PROPERTIES OF SLM AGE HARDEMABLE STAINLESS STEEL BY FINE MICROSTRUCTURE CONTROLLING | TWO NEW PROCESSES ON SHEET SPD |
| 12.00 | Mr. Rub Nawaz Shahid ^{1,2} , Dr. Fahad Ali ³ , Prof. Dr. Jürgen Eckert ^{4,5} , Dr. Sergio Scudino ¹ | Valentin Dalbauer¹, Alexander Kirnbauer¹, Dr. Jürgen Ramm², Dr. Szilard Kolozsvári³, Dr. Christian-Martin Koller¹, Prof. Paul-Heinz Mayrhofer¹, | Dr Massoud Dadras', Dr Olha Sereda', Dr Kaushik Vaideeswaran', Mr Herve saudan', Mr Lionel Kliener' | Dr Roxane Massion ¹ , Dr Jean Jacques FUNDEN- BERGER ¹ , Dr Cai CHEN ¹ , Dr Yajun ZHAO ¹ , Viet Q. VU ¹ , Pr Laszlo TOTH ¹ , Pr Yan BEYGELZIMER ² , Dr Roman KULAGIN ² |
| | 'Institute for Complex Materials, IFW Dresden, Dresden, Germany, 'Faculty of Mechanical Science and Engineering, TU Dresden, Dresdeeh, Germany, 'Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad, Pakistan, 'Érich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, 'Department Materials Physics, Montanuniversität Leoben, Leoben, Austria | ¹ TU Wien CDL-AOS. Institute of Materials Science and Technology, Wien, Austria, ¹ Oerlikon Balzers, Oertikon Surface Solutions AG, Balzers, Liechtenstein, ¹ Plansee Composite Materials GmbH, Lechbruck am See, Germany, ⁴ TU Wien, Institute of Materials Science and Technology, Wien, Austria | [†] Csem, Material Science, Neuchatel, Switzerland | 'Lem3 Université De Lorraine, Metz, France, ² Karlsruhe Institute of Technology, Karlsruhe, Germany, ³ National Academy of Sciences of Ukraine, Kiev, Ukraine |
| | OPTIMIZATION OF THE SPACIAL DISTRIBUTION OF THE CNTs IN A Cu/CNT COMPOSITE PROCESSED BY LIQUID METALLURGY | A COMPARABLE STUDY OF THERMOCHROMIC VO2 FILMS GROWN BY SPUTTERING AND HYDROTHER- MAL SYNTHESIS TECHNIQUES | INFLUENCE OF PROCESS PARAMETERS ON FINAL 316L STAINLESS STEEL PROPERTIES MANUFAC- TURED BY SELECTIVE LASER MELTING (SLM) | INFLUENCE OF HIGH PRESSURE TORSION ON THE GROWTH OF TIO2 NANOTUBES ON PURE TITANIUM |
| 12.20 | Sana Elmaana ^{1,2} , Xavier Sauvage ¹ , Nicolas Masquelier ² , Alain Guillet ¹ | PhD Candidate Emmanouil Gagaoudakis ^{1,2} , Dr Vasilios Binas ^{1,24} , Mrs Leila Zouridi ^{1,3} , Mrs Olga Markaki ^{1,2} , Dr Elias Aperathitis ¹ , Proffessor George Kiriakidis ^{1,2,4} | Aziz Chniouel¹, Dr Fernando Lomello¹, Dr Pierre- François Giroux², Dr Pascal Aubry¹, Dr Hicham Maskrot¹, Dr Fanny Balbaud¹ | Dr Nan Hu¹, <u>Dr Nong Gao</u> ¹, Dr Ying Chen², Professor Marco Starink¹ |
| 12.20 | ¹ Normandie Univ., INSA Rouen, UNIROUEN, CNRS, Graupe de Physique des Malériaux (GPM), Rouen, France, ² NEXANS, Lens, France | Institute of Electronic Structure and Laser, Foundation for Research and Technology Hellas. Heraklion/Crete, Greece. ² University of Crete/Physics Department. Heraklion/Crete, Greece. ¹ University of Crete/Chemistry Department. Heraklion/Crete, Greece. ¹ Crete Center for Quantum Complexity and Manotechnology. Department of Physics. University of Crete, Heraklion/Crete, Greece | ¹ Den — Service d'Etudes Analytiques et de Réactivité des Surfaces (SEARS). CEA Université Paris-Saclay Gif-sur-yvette, France. ² Den — Service de Recherches Mérallurgiques Appliquées (SRMA), CEA, Université Paris-Saclay, Gif-sur-Yvette, France | ¹ University Of Southampton, Southampton, United Kingdom, ² Xiamen University of Technology, Xiamen, China |
| | EVALUATION OF TENSILE PROPERTIES OF PM AL COMPOSITES BY SMALL PUNCH TESTING | CATHODIC ARC SPUTTERING OF LOWER TITANIUM OXIDES | EFFECT OF ARGON AND NITROGEN ATMOSPHERES ON THE PROPERTIES OF 316L STAINLESS STEEL PARTS BUILT BY LASER SINTERING. | HIGHLIGHT EFFECT OF NANOSTRUCTURES FORMED IN BIOMEDICAL TI-N: AND N:-FREE TI-BASED SHAPE MEMORYALLOYS BY THERMOMECHANICAL TREATMENT ONTHEIR FUNCTIONAL BEHAVIOR |
| 12.40 | Dr. Mario Moreno ¹² , Dr. Martin Balog ³ , Dr. Peter Krizik ³ | <u>Dr. Petr Shvets</u> ¹, Dr. Alexander Goikhman¹, Mrs. Ksenia Maksimova¹ | Camille Pauzon ¹² , Prof. Eduard Hryha ¹ , PhD Pierre Forêt ² , Prof. Lars Nyborg ¹ | Professor Sergey Prokoshkin¹, Professor Vladimir Brailovski², PhD Karine Inaekyan², PhD Sergey Dubinskiy¹, PhD Vadim Sheremetyev¹, PhD Anton Konopatsky¹ |
| | ¹ Centro Atómico Bariloche, Bariloche, Argentina, ² CONICET, Bariloche, Argentina, ³ Institute of Mate- rials and Machine Mechanics, Bratislava, Slovakia | ¹ Baltic Federal University, Kaliningrad, Russian Federation | ¹ Chalmers University Of Technology, Göteborg, Sweden, ² Linde Gas AG, Unterschleissheim, Germany | 'National University of Science and Technology MISIS,Moscow, Russian Federation, 'Ecole de Technologie Superieure, Montreal, Canada |
| | | NITROGEN IONIC IMPLANTATION INTO NIOBIUM FOR TECHNOLOGICAL APPLICATIONS | | EQUAL-CHANNEL ANGULAR PRESSING OF TI-NI SMA UNDER QUASI-CONTINOUS MODE FOR ULTRAFINE-GRAINED STRUCTURE FORMING AND IMPROVING FUNCTIONAL PROPERTIES |
| 13.00 | | Dr. Rogerio Oliveira¹, Dr. Odylio Aguiar¹, Dr. Aline Oliveira², MsC Lilian Hoshida¹, Dr. Graziela Savonov¹ | | Irina Khmelevskaya¹ |
| | | ¹ INPE, SAO JOSE DOS CAMPOS, Brazil, ² UNIFESP, SAO JOSE DOS CAMPOS, Brazil | | "National University Of Science And Technology "misis", 4. Leninskiy Pr., Moscow, 119049 Russia, Russian Federation |

<u>96</u> EUROMAT2017



| Symposium | D1 | D2 | D3 | D4 |
|---------------|---|--|--|---|
| Room | Artist Café /M1 | Museum Hall /M2 | I-15/M1 | Library Hall/M2 |
| Session Title | Tomography | Advanced modeling by simulation & experiment | Electronic properties and energetic materials | Session 7 - Micro/nano-mechanics of damage I |
| Chairperson | Peter D. Lee and Ragnvald Mathiesen | Slawomir Kret | Jean-Paul Itié, Ioannis Arvanitidis | Eric Le Bourhis |
| | KEYNOTE/INVITED DIFFRACTION, PHASE AND ATTENUATION IMAGING FOR DUCTILE DAMAGE | KEYNOTE/INVITED PROBING COMPLEX MATERIALS ONE ATOM AT A TIME USING A COMBINATION OF THEORY AND MICROSCOPY | KEYNOTE/INVITED EVIDENCE OF A NEW ENERGY SCALE FOR SUPERCONDUCTIVITY IN H3S | HYDROGEN ENHANCED CRACKING STUDIES ON Fe-3WT.%SI SINGLE AND BI-CRYSTAL MICRO CANTILEVERS |
| 11.00 | | | | Tarlan Hajilou', Yun Dengʻ, Dr. Nousha Kheradmandʻ, Dr. Vigdis Olden², Prof. Roy Johnsenʻ, Prof. Afrooz Barnoushʻ |
| | Eric Maire ¹ , Sylvain Dancette ¹ , Christophe Le Bourlot ¹ | Professor Sokrates Pantelides ¹ | Dr Pascale Roy ¹ , Dr Francesco Capitani ¹ , Mr Benjamin Langerome ¹ , Dr Jean-Blaise Brubach ¹ , Dr Aleksander Drozdov ² , Pr Mikhail Eremets ² , Pr Elizabeth Nicol ² , Pr Jules Carbotte ⁴ , Pr Thomas Timusk ^{4,5} | Department of Mechanical and Industrial Engineering, Norwegian University of Science and Technology, Trondheim, Norway, ² SINTEF Materials and Chemistry, Trondheim, Norway |
| | | | | AB INITIO STUDY OF HYDROGEN EMBRITTLEMENT IN Fe: GRAIN BOUNDARY DECOHESION |
| 11.20 | ¹ Insa Lyon - Mateis Lab, Villeurbanne, France | [†] Department of Physics and Astronomy, Vanderbilt University, Nashville, United States | ¹ Synchrotron Soleil. Saint-Aubin, France, ² Bio- geochemistry Department, Max Planck Institute for Chemistry, Mainz, Germany, ³ Department of Physics, University of Guelph, Guelph, Canada, ⁴ The Canadian Institute for Advanced Research, Toronto, Canada, ³ Department of Physics and Astronomy, McMaster | Dr. I.J.T. Jensen', T. Hajilo', Dr. N. Kheramand', Prof. A. Barnoush', Prof. Z. Zhang', Dr. V. Olden', Prof. O.M. Løvvik ¹ |
| | | | University, Hamilton, Canada | 'SINTEF Materials and Chemistry, Oslo, Norway, 'Norwegian University of Science and Technology, Trondheim, Norway, 'SINTEF Materials and Chemistry, Trondheim, Norway |
| | HIGHER-ORDER ITERATIVE RECONSTRUCTION OF IN SITU DENDRITIC GROWTH | COMBINED EELS/DFT CHARACTERIZATION OF THE SURFACE FUNCTIONALIZATION OF Ti ₃ C ₂ 2D-SHEETS: FROM LOCAL COORDINATION TO OPTICAL PROPERTIES | HIGHLIGHT PRESSURE EFFECT ON THE CHARGE DENSITY WAVE INSTABILITY IN THE CUPRATE SUPERCONDUCTORS | HYDROGEN EMBRITTLEMENT IN STRUCTURAL STEEL Coarse-grained heat affected zone — influ- ence of varying the stress concentration experiments and modelling |
| 11.40 | <u>Dr. Daniil Kazantsev</u> ¹ , Dr. Enyu Guo ¹ , Prof. Peter Lee ¹ | Dr Damien Magné ¹ , Dr Vincent Mauchamp ¹ , Dr Matthieu Bugnet ^{2,3} , Dr Stéphane Célérier ⁴ , Dr Patrick Chartier ¹ , Pr Gianluigi Botton ² , Pr Thierry Cabioc'h ¹ | Dr Sofia-Michaela Souliou ¹ , Dr Hlynur Gretarsson ² , Dr Gaston Garbarino ¹ , Hun-ho Kim ² , Juan Porras ² , Dr Alexei Bosak ¹ , Prof Bernhard Keimer ² , Prof Mathieu Le Tacon ³ | <u>Dr. Antonio Alvaro</u> ¹ , Dr. Vigdis Olden ¹ , Vidar Osen ¹ , Bård Nyhus ¹ |
| | The University Of Manchester, Research Complex at Harwell, Didcot, United Kingdom | Institut Pprime - UPR3346 - CNRS- Politiers University - ISAE ENSMA, Futuroscope Chasseneuil, France, ² Department of Materials Science and Engineering, McMaster University, Hamilton, Canada, ² Laboratoire MATEIS, UMR 5510 CNRS - Université de Lyon - INSA Lyon, Lyon, France, Ainstitut de Chimie des Milieux et Matériaux de Poitiers, UMR 7285, Université de Poitiers, Politiers, France | 'European Synchrotron Radiation Facility, Greno- ble, France, 'Max-Planck-Institut für Festkörper- forschung, Stuttgart, Germany, 'Karlsruhe Institute of Technology, Institut fur Festkorperphysik, Karlsruhe, Germany | 'SINTEF Materials and Chemistry, Trondheim, Norway |
| | SOLIDIFICATION IN 4D: FROM DENDRITES TO EUTECTICS | HIGHLIGHT ATOMIC CHARACTERISATION AND MODELLING OF HALFMETAL/SEMICONDUCTOR INTERFACES | POLYMERIC NITROGEN-LIKE COMPOUNDS: A PROMISING ROUTE TOWARDS NOVEL HIGH ENERGY DENSITY MATERIALS | CAST IRON AND MICRO CRACKS |
| 12.00 | Professor Ashwin Shahani ² , Dr. Xianghui Xiao ³ , Professor Peter Voorhees ¹ | Dr Vlado Lazarov ¹ , Dr Demie Kepaptsoglou ² , Mr Zlat- ko Nedelkoski ¹ , Dr Balati Kuerbanjiang ¹ , Dr Quentin Ramasse ² , Mr Arsham Ghasemi ¹ , Dr Leonardo Lari ³ , Prof Kohei Hamaya ⁴ | Mr Dominique Laniel ¹ , Dr Weck Gunnar ¹ , Dr Paul Loubeyre ¹ | Mr. Mattias Lundberg¹, Mr. Jonas Saarimäki¹, Ph. D. Mattias Calmunger¹, Professor Johan Moverare¹ |
| | Northwestern University, Evanston, United States, ² University of Michigan, Ann Arbor, United States, ³ Argonne National Laboratory, Argonne, United States | 'University Of York, York, United Kingdom, 'SuperSTEM Laboratory, Warrington, United Kingdom, 'York JEOL Nanocentre, York, United Kingdom, 'Osaka University, Osaka, Japan | 'Commissariat à l'énergie atomique, Paris, France | 'Linköping University, Linköping, Sweden |
| | SYNCHROTRON QUANTIFICATION OF STRAIN DURING SHALE FRACTURE | COMBINING SPATIALLY-RESOLVED ELECTRON ENERGY LOSS SPECTROSCOPY EXPERIMENTS WITH ATOMISTIC SIMULATIONS TO STUDY THE PROPERTIES OF HELIUM BUBBLES IN COVALENT SYSTEMS AT THE NANOSCALE | INVESTIGATION OF A MOLECULAR CRYSTAL PLAS- TITICY MECHANISMS: A MULTISCALE APPROACH | |
| 12.20 | Dr Anne-Laure Fauchille ¹² . Dr Mike Chandler ² . Dr Lin Ma ³ , Dr Patrick Dowey ³ . Dr Loic Courtois ¹²⁴ . Pr Ernest Rutter ² . Dr Julian Mecklenburgh ³ , Pr Kevin Taylor ³ . Pr Peter Lee ¹² | Dr Marie-Laure David¹, Julien Dérès¹, Dr. Kévin Alix¹, Prof. Cécile Hébert², Dr. Duncan T.L. Alexander², Dr. Laurent Pizzagalli¹ | Mr Paul Lafourcade ¹ , Dr Christophe Denoual ¹ , Dr Jean-Bernard Maillet ¹ | |
| | 'Manchester X-Ray Imaging Facility, School of Materi- als. the University of Manchester, Manchester, United Kingdom, 'Research Complex at Harwell, Rutherford Appleton Laboratory, Didcot, United Kingdom, 'School of Earth and Environmental Sciences, the University of Manchester, Manchester, United Kingdom, '3Dimagi- nation Ltd, Allas building, Fermi Avenue, Harwell Didcot, United Kingdom | 'Institut Pprime, CNRS-Universté de Potiters-ISAE-EN- SMA, Chasseneuil Futuroscope, France, ² CIME, EPFL- SB-CIME-GE, Lausanne, Switzerland | 'CEA-DAM, DIF, Paris, France | |
| | STUDY OF 3D DAMAGE AND STRAIN EVOLUTION IN THIN-SHEET AL ALLOY MATERIALS BY SYNCHROTRON LAMINOGRAPHY AND DIGITAL VOLUME CORRELATION | STRAINED In GAI, ANG SUPERLATTICES EMBEDDED IN GAN NANOWIRES | HYDROGEN MEDIATED UNUSUAL PROPERTIES OF COMPLEX HYDRIDES UNDER PRESSURE | |
| 12.40 | Dr. Lukas Helfen ^{1,5} , Dr. Thilo F. Morgeneyer ² , Ante Buljac ² , Dr. Heikki Suhonen4, Dr. Yin Cheng ¹ , Dr. Francois Hild ³ , Prof. Dr. Tilo Baumbach ¹ | Dr Theodoros Pavloudis¹, Prof Joseph Kioseoglou¹, Prof Thomas Kehagias¹, Dr. Christoher D. Latham², Dr Mark J. Rayson², Prof Patrick Briddon², Prof Martin Eickhoff*, Prof Theodoros Karakostas¹ Prof Philomela Komninou¹ | Ewelina Magos-Palasyuk¹. Dr Taras Palasyuk¹ | |
| (E.W) | 'Karlsruher Institute Of Technology, Eggenstein-Leo- poldshaden, Germany, 'Centre des Matériaux - Mines Paristech, Evry cedex, France, 'Laboratoire de Mécanique et Technologie, ENS Paris-Saclay, Cachan, France, 'University of Helsinki, Finland, 'The European Synchrotron (ESRF), Grenoble, France | Department of Physics, Aristotle University of Thes- saloniki, GR-54124Thessaloniki, Greece, ² Department of Chemistry, University of Surrey, Guildford, Surrey GU2 7XH, United Kingdom, ³ School of Electrical and Electronic Engineering, Newcastle University, New- castle upon Tyne NET 7RU, United Kingdom, ⁴ Institute of Experimental Physics I, Justus-Liebig-University Giessen, D-35392 Giessen, Germany | 'Institute Of Physical Chemistry PAS, Warsaw, Poland | |



| Symposium | D8 | D9 | D10 | E2 |
|---------------|---|--|---|---|
| Room | I -16/M1 | Maurice Saltiel Hall I/M2 | CR II Hall/M2 | CR III Hall/M2 |
| Session Title | Phase stability and transformations in iron and steels | Advanced Modelling of Nuclear Structural Materials (II) | Multiscalle modeling and connecting to continuum level descriptions | Electrolytes |
| Chairperson | Dr. Mihai-Cosmin Marinica | L. Malerba | Harmandaris-Goddin | P. Knauth |
| | KEYNOTE/INVITED FROM DENSITY FUNCTIONAL THEORY TO MAGNETIC INTERATOMIC POTENTIALS AND THE CALCULATION OF THERMODYNAMIC OBSERVABLES | KEYNOTE/INVITED MODELLING OF EMBRITTLING FEATURES IN IRRADIATED F/M STEELS AND ALLOYS | KEYNOTE/INVITED ATOMISTICALLY INFORMED FULL-FIELD SIMULA- TION OF TEMPERED MARTENSITE: QUENCHING, TEMPERING AND MECHANICAL CHARACTERIZATION | ELECTROCHEMICAL POLYMERIZATION OF SULFONATED AROMATIC PRECURSORS FOR LI ION MICROBATTERIES |
| 11.00 | | | | <u>Dr. Michele Braqlia</u> ¹³ , Dr. Ivan Vito Ferrari ²³ , Prof. Florence Vacandio ³³ , Prof. Thierry Djenizian ¹² , Prof. Maria Luisa Di Vona ²³ , Prof. Philippe Knauth ^{1,3} |
| | Professor Ralf Drautz ¹ | <u>Dr Cristelle Pareige</u> ' | Prof. Ingo Steinbach | Aix Marseille University, CNRS, Marseille, France, University of Rome Tor Vergata (URoma2), Roma, Italy, International Associated Laboratory (L.I.A.), Ionomer Materials for Energy (AMU, CNRS, URoma2), |
| | [†] ICAMS / Ruhr-Universität Bochum, Bochum, Germany | ¹ University Of Rouen - CNRS , Rouen, France | ¹ Ruhr-University Bochum, Bochum, Germany | HIGHLIGHT NOVEL IONIC LIQUIDS AS ELECTROLYTE COMPONENTS FOR LI-ION AND LI-S BATTERIES |
| 11.20 | | | | <u>Dr Maria Assunta Navarra</u> ¹, Dr Akiko Tsurumaki¹, Prof Stefania Panero¹ |
| | | | | 'Sapienza University Of Rome, Rome, Italy |
| | DYNAMIC AB-INITIO BASED SIMULATIONS OF STRUCTURAL PHASE TRANSITIONS IN MAGNETIC IRON AND A NON-COLLINEAR LSDA+U MODEL | NANOSTRUCTURE EVOLUTION OF HIGH-CHROMIUM FERRITIC/MARTENSITIC ALLOYS UNDER NEUTRON AND ION IRRADIATION: AN OBJECT KINETIC MONTE CARLO MODEL | HIGHLIGHT BAYESIAN COARSE-GRAINING | IONOGELS FOR EMERGY STORAGE: THE DETERMINING EFFECT OF THE INTERFACE |
| 11.40 | Dr. Pui-Wai Ma¹, <u>Dr. Sergei L. Dudarev</u> ¹ | Monica Chiapetto ¹² , <u>Lorenzo Malerba</u> ¹ , Nicolas Castin ¹ , Charlotte Becquart ² | Markus Schoeberl ¹ , Professor Nicholas Zabaras ² , <u>Professor Phaedon-Stelios Koutsourelakis¹</u> | Professor Jean Le Bideau¹, Dr Aurélie Guyo- mard-Lack¹, Dr Bilel Said², Dr Nicolas Dupré¹, Prof Bernard Humbert¹, Prof Dominique Guyomard¹, Prof Thierry Brousse¹, Prof Anne Galarneau² |
| | ¹ Culham Centre For Fusion Energy. Abingdon, United Kingdom | ¹ SCK-CEN, Mol, Belgium, ² Lille University of Science and Technology, Villeneuve-d'Ascq, France | ¹ Technical University Of Munich, Garching, Germany, ² University of Notre Dame, United States of America | ¹ Institut Des Matériaux Jean Rouxel (IMM) - Université De Nantes - CNRS. Nantes, France. ² Institut Charles Gerhardt Montpellier - Université de Montpellier - CNRS, Montpellier, France |
| | THERMODYNAMIC PROPERTIES OF \$\gamma\$-Fe FROM FIRST PRINCIPLES. | ADVANCED ATOMISTIC AND OBJECT KINETIC MONTE CARLO MODELS DESCRIBING THE DECORATION OF LOOPS BY CR AND THE FORMATION OF CT-NI-SI-P CLUSTERS IN Fe-ALLOYS UNDER IRRADIATION | FROM ATOMISTIC TO SYSTEMATIC COARSE-GRAINED MODELS FOR MOLECULAR SYSTEMS | OXYSULFIDE ELECTROLYTES FOR ALL-SOLID-STATE BATTERY APPLICATIONS |
| 12.00 | <u>Hossein Ehteshami</u> l, Pavel A. Korzhavyi ¹² | <u>Dr Nicolas Castin</u> ', Dr Monica Chiapetto ¹² , Dr Lorenzo Malerba ¹ | Prof. Vagelis Harmandaris ¹ | MSc. Theodosios Famprikis ^{12,3} Dr. Pieremanuele Canepa ²³ , Dr. James A Dawson ^{2,3} , Dr. Yue Denny ^{1,2,3} , Dr. Jean-Nosič Chotard ^{1,3} , Prof. Saiful Islam ^{1,3} , Prof. Christian Masqueller ^{1,3} |
| | ¹ Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden, ² Institute of Metal Physics, Ural Division of the Russian Academy of Sciences, Ekaterinburg, Russia | ¹SCK*CEN. Belgium. Mol. Belgium. ²Univ. Lille, CNRS. INRA, ENSCL, UMR 8207.UMET, Unité Matériaux et Transformations, Lille, France | ¹ University Of Crete, Department of Mathematics and Applied Mathematics, Greece, ³ Institute of Applied and Computational Mathematics FORTH, Heraklion, Greece | 'Laboratoire de Réactivité et Chimie des Solides - CNRS, Amiens, France, 'Department of Chemistry, University of Bath, Bath, United Kingdom, 'ALISTORE European Research Institute, Amiens, France |
| | PHASE STABILITY, MAGNETIC AND DEFECT PROPERTIES OF Fe-Cr-Ni Ternary Alloys Predicted by AB Initio Calculations. | SEGREGATION OF Cr TO GRAIN BOUNDARIES IN IRRADIATED FECR ALLOYS WITH CELL-OBJECT KINETIC MONTE CARLO | INTEGRATED COMPUTATIONAL MATERIALS ENGI- NEERING (ICME) AND BUSINESS DECISION SUPPORT SYSTEMS (BDSS) IN THE CONTEXT OF OPEN INNO- VATION AND INTERDISCIPLINARY COLLABORATION | CONTRIBUTION OF SURFACE SCIENCE (XPS, AES, TOF-SIMS) TO THE KNOWLEDGE OF SOLID ELECTRODE/ELECTROLYTE INTERFACES (SEI) FOR LI ION BATTERIES |
| 12.20 | Jan Wróbet ^{1,2} , Mikhail Lavrentiev ² , Krzysztof Kurzydłowski ¹ , Sergei Dudarev ² , Duc Nguyen-Manh ² | <u>Dr Juan Pablo Balbuena</u> ¹, L. Malerba², N. Castin², G. Bonny², Prof. Dr. Maria José Caturla¹ | Dr James Goddin ¹ , Dr Donna Dykeman ¹ , Mr Najib Baig ¹ , Dr William Marsden ¹ , Prof. David Cebon ¹ | Professor Herve Martinez ¹ |
| | ¹ Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, ² CCFE, UK Atomic Energy Authority, Abingdon, United Kingdom | ¹ Dept. Física Aplicada, Facultat de Ciencies, Univer- sitat d'Alacant, Alacant, Spain, ² SCK-CEN, Belgium | ¹ Granta Design, Cambridge, United Kingdom | 'Université de Pau et des Pays de l'Adour Iprem-cnrs Umr 5254, Pau, France |
| | AB INITIO STUDY OF FINITE-TEMPERATURE ELASTIC CONSTANTS OF POLYCRYSTALLINE AND SINGLE-CRYSTALLINE FERROMAGNETIC BCC IRON | ATHERMAL FORMATION OF <100> DISLOCATION LOOPS IN FE FROM OVERLAPPING CASCADES | | |
| | Bc. Ondrej Svoboda ¹² , Dr. Martin Friak ^{23,4} , Priv. Doc. David Holee ⁵ , Associated Professor Vit Jan ^{6,7,4} , Prof. Mojmir Sob ^{3,28} | <u>Dr Andrea Sand</u> \'2, Dr Fredric Granberg\'2, Jesper Byggmastar\'2, Prof Kai Nordlund | | |
| 12.40 | 'Institute of Solid Mechanics, Mechatronics and Biomechanics, Faculty of Mechanical Engineering, Brno University of Technology Brno, Czech Republic, 'Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic, 'Central European Institute of Technology, CEITEC MU, Mosary Kuniversity, Brno, Czech Republic, 'Central European Institute of Technology, Brno, Czech Republic, 'Department of Physical Metallurgy and Materials Testing, Montanuniversiatel Leoben, Leoben, Austria' Institute of Meterials Engineering, NETME center, Faculty of Mechanical Engineering, Brno University of Technology, Brno, Czech Republic, 'Department of Structural and Phase Analysis, Faculty of Mechanical Engineering, Brno University of Technology, Brno, Czech Republic, 'Department of Chemistry, Faculty of Science, Masaryk University, Brno, Czech Republic | ¹ CCFE, UK, ² University of Helsinki, Finland | | |
| 13.00 | | | | |
| | | 1 | I. | <u>. </u> |



| | | | F2 |
|---------------|---|---|--|
| Room | Rehearsal Room 5.17/M1 | Conference Room 2/M1 | 3-21/M1 |
| Session Title | Thermoelectrics III | Materials under irradiation | Biomaterials for Therapeutic Delivery I |
| Chairperson | Yaniv Gelbstein | Régis Bisson | Montserrat Colilla |
| 11.00 | HIGHLIGHT NEW POLAR CHALCOGENIDES AND PNICTIDES: CHEMISTRY, BONDING AND TRANSPORT PROPERTIES | IN-SITU TRANSMISSION ELECTRON MICROSCOPY STUDIES OF ION IRRADIATION EFFECTS IN NANOSCALE MATERIALS | KEYNOTE/INVITED CLINICAL TRANSLATION OF ULTRASOUND-RESPONSIVE NANOMATERIAL FOR ONCOLOGICAL DRUG DELIVERY: FROM THERMOSENSITIVE LIPOSOM TO POLYMER-STABILIZED NANOBUBBLES |
| | Prof. Franck Gascoin ¹ | <u>Professor Stephen E Donnelly</u> ¹ , Dr Jonathan A Hinks ¹ , Dr Graeme Greaves ¹ , Dr Robert W Harrison ¹ , Dr Anamul H Mir ¹ | Prof. Constantin-C. Coussios ¹ |
| | ³ Crismat Laboratory - U. Of Normandy, Caen, France | ¹ University of Huddersfield, United Kingdom | Director, Institute of Biomedical Engineering, University of Oxford, Oxford OX3 7DQ, UK |
| 11.20 | HIGHLIGHT THEORETICAL FEASIBILITY AND ENGINEERING CHALLENGES OF HYBRID PHOTOVOLTAIC-THERMOELECTRIC SYSTEMS | THE EFFECT OF NIOBIUM ON THE IRRADIATION GROWTH PROPERTIES OF Zr-Nb binary alloys used for Nuclear applications | NOVEL (COORDINATION) POLYMER NANOPARTICLES FOR ADVANCED THERANOSTICS |
| | Professor Min Gao¹ | Miss Rebecca Jones¹, Dr Philipp Frankel¹, Professor Tamas Ungar¹, Professor Michael Preuss¹ | Professor Daniel Ruiz Molina ¹ |
| | ³ Cardiff University, Cardiff, United Kingdom | ¹ University Of Manchester, Manchester, United Kingdom | 'Icn2, Campus UAB, 08193, Bellaterra, Spain |
| | EVALUATION OF MECHANICALLY IMPROVED GETE BASED TE MATERIALS | LOW ACTIVATION TI-5AI-4V-2Zr ALLOY MICROSTRUCTURE AND ITS RESPONSE TO HEAVY ION IRRADIATION | CONTINUOUS FLOW PRODUCTION OF HYBRID NANOMATERIALS FOR APPLICATIONS IN NANOMEDICINE USING MICROFLUIDIC SYSTEMS |
| 11.40 | Mr. Gilad Guttmann ¹² , Prof. Yaniv Gelbstein ¹ | Mr. Alexander Nikitin¹, Dr. Sergey Rogozhkin¹, Mrs. Olesya Korchuganova¹, Dr. Alexander Vasiliev², Dr Andrey Orekhov², Dr. Valeriy Leonov², Dr. Irina Schastlivaya², Dr. Martin Heilmaier⁴, Mr. Sascha Seils⁴ | Dr Victor Sebastian ¹ , Ms Ane Larrea, Dr Edurne Luque-Michel, Dr Manuel Arruebo, Dr Maria Blanco-Prieto, <u>Prof. Jesus Santamaria</u> |
| | Ben-gurion University, Beer-Sheva, Israel, Nuclear Research Center Negev, Beer-Sheva, Israel | Institute for Theoretical and Experimental Physics of National Research Centre "Kurchatov Institute", Moscow, Russia, "National Research Centre "Kurchatov Institute", Moscow, Russia, "Central Research Institute of Structural Materials "Prometey", St. Petersburg, Russia, "Karlsruhe Institute of Technology, Karlsruhe, Germany | ¹ Universidad De Zaragoza, Zaragoza, Spain |
| | HIGHLIGHT TRACING LOCAL DOPANT IN-HOMOGENEITIES IN THERMOELECTRIC MATERIALS | PROPERTIES OF IRRADIATION-INDUCED POINT DEFECTS IN EUROFER-97 STEELS | EVALUATION OF GOLD NANOPARTICLES IN VIVO USING THE CAENORHABDITIS ELEGANS MODEL ORGANISM |
| 10.00 | <u>Dr. Euripides Hatzikraniotis</u> ¹ | Dr George Apostolopoulos¹, Mr Andreas Theodorou¹, <u>Dr Zoi Kotsina</u> ¹, Dr K Mergia¹, Dr S Messoloras¹, Dr A Lagoyannis¹, Dr S Harissopoulos¹ | Laura Gonzalez-Moragas ¹ , Pascal Berto ² , Clara Vilches ² , Romain Quidant ² , Androniki Kolovou ³ , Rachel Santarella-Mellwig ³ , Yannick Schwab ³ , Stephel Stürzenbaum ⁴ , Anna Roig ¹ , <u>Anna Laromaine</u> ! |
| 12.00 | ¹ Aristotle University of Thessaloniki, Thessaloniki, Greece | [†] NCSR-Demokritas, Aghia Paraskevi, Greece | 'Institut de Ciència de Materials de Barcelona, ICMAB-CSIC., Campus UAB. 08193 Bellaterra, Barcelona - Spain., Spain, 'ICFO-Institut de Ciències Fotòniques., Av. Carl Friedrich Gauss, '3,0860 Castelldefels, Spain, 'European Molecular Biology Laboratory, EMBL, Meyerhofstra 1, 69117 Heidelberg - Germany, Germany, 'A King's College London. Fa ulty of Life Sciences & Medicine, Analytical and Environmental Scienc Division, 150 Stamford Street, London SE1 9NH - United Kingdom., United Kingdom. |
| | ELECTRONIC TRANSPORT SIMULATIONS IN NANOSTRUCTURED MATERIALS FOR LARGE THERMOELECTRIC POWER FACTORS | CHARACTERIZATIONS OF ZFCXNY CERAMICS AND NEUTRONIC PERFORMANCE FOR NON-OXIDE FUEL FOR GENERATION IV REACTORS | INCORPORATION OF MESOPOROUS BIOACTIVE GLASSES INTO THERMOS SITIVE POLYURETHANE HYDROGELS FOR TISSUE REGENERATION |
| 12.20 | <u>Dr Neophytos Neophytou</u> ¹, Dr Mischa Thesberg² | <u>Dr Osama Farid</u> ¹² , Dr Nader Mohamed ² | Sonia Lucia Fiorilli ¹ , Alessandra Bari ¹ , Monica Boffito ² , Carlotta Pontremoli ¹ , Chiara Tonda-Turo ² , Alessandro Torchio ² , Gianluca Ciardelli ² , Chiara Vitale-Brovarone ¹ |
| | ¹ University of Warwick, United Kingdom, ² Institute for Microelectronics, Technical University of Vienna, Vienna, Austria | ¹ I.N.S.A.Lyon, FRANCE, MATEIS - Equipe CorrIS, 21 Avenue Jean Capelle, France, ² Atomic Energy Authority, ETRR- ² , P.O. 13759, Abu Zaabal, Egypt | Department of Applied Science and Technology, Politecnico di Torino, Turin, Italy, Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Turin, Italy |
| | EFFECT OF ANNEALING ON THE THERMOELECTRIC PROPERTIES OF BIO.55b1.5Te3 THIN FILMS GROWN ON RIGID AND FLEXIBLE SUBSTRATES | EFFECT OF HEAVY ION IRRADIATION ON THE MICROSTRUCTURE OF OXIDE DISPERSION STRENGTHENED STEELS | BIOCOMPATIBLE HYBRID NANOGELS FOR REMOTELY CONTROLLED DRUG DELIVERY BY MAGNETIC HYPERTHERMIA |
| 12.40 | <u>Dr Elli Symeou</u> [†] , Mrs Christiana Nicolaou [†] , Dr. Ioannis Giapintzakis [†] | Aleksei Bogachev ^{1,2} , Doctor of science Sergey Rogozhkin ^{2,1} , Nikolay Orlov ^{2,1} Olesya Korchuganova ^{2,1} Aleksandr Nikitin ^{2,2} , Doctor of science, Professor Alexander Zaluzhnyi ^{2,1} , Mihail Kozodaev ^{2,1} , Timur Kulevoy ^{2,} Rostislav Kuibeda ² , Petr Fedin ² , Boris Chalykh ² , Lindau Rainer ² , Doctor of science Jan Hoffmann ³ , Doctor of science, Professor Anton Möslang ³ , Doctor of science Pavel Vladimirov ³ , Doctor of science Michael Klimenkov ³ | Esther Cazares Cortes ¹ , Dr. Ana Espinosa ² , Dr. Nébéwia Griffette ¹ , Dr. Claire Wilhelm ² , Pr. Christine Ménager ¹ |
| | [†] University Of Cyprus, Nicosia, Cyprus | 'National Research Nuclear University "MEPhI", Moscow, Russian Federation, 'SSC RF ITEP of NRC "Kurchatov Institute", Moscow, Russian Federation, 'Karlsruhe Institute of Technology, Karlsruhe, Germany | "Laboratory Physicochimie des Electrolytes et des Nanosystèmes Interfacio Paris, France, [‡] University Paris Diderot, CNRS, UMR 7057, Laboratory MSC, Condorcet, 10 rue Alice Domon et Léonie Duquet, Paris, France |
| 13.00 | | | |



| Symposium | A2 | A5 | A7 | B1 |
|---------------|---|---|--|--|
| Room | I-11/M1 | MOYSA Hall/M2 | I-08/M1 | Conference Room 3/M1 |
| Session Title | Applications of Magnetic Materials | Nanoparticles: Synthesis and Applications V | Carbon based Materials I | Bainitic Steels I |
| Chairperson | P. Poulopoulos | Maria Casula | Frank Mücklich | Ilana Timokhina |
| | KEYNOTE/INVITED MAGNETIC HEUSLER COMPOUNDS FOR SPINTRONIC APPLICATIONS: A THEORETICAL AB-INITIO STUDY | HIGHLIGHT COMPOUND COPPER CHALCOGENIDE NANOCRYSTALS: PROGRESS IN MULTI-ELEMENT SYNTHESIS, COMPLEX SHAPE CONTROL, HIERARCHICAL ASSEMBLY AND DEVICE APPLICATION | POLYELECTROLYTE/GO LAYER-BY-LAYER THIN FILMS FOR ADVANCED COATINGS | CARBON DISTRIBUTION IN BAINITIC FERRITE AT LOW TEMPERATURE |
| 15.00 | | <u>Professor Kevin Ryan</u> ¹, Dr Claudia Couglan¹ | Dr Cristina Valles ¹² , Ms Laura Burk ¹⁴ , Professor Rolf Mülhaupt ¹⁴ , Professor Robert Young ¹² , Professor lan Kinloch ¹² | Rosalia Rementeria ¹ , Jonathan D. Poplawsky ² , Esteban Urones-Garrote ³ , Jose A. Jimenez ¹ , Carlos Garcia-Mateo ¹ , <u>Francisca G. Caballero</u> ¹ |
| | <u>Prof. Dr. losif Galanakis</u> | ¹ University Of Limerick, Limerick, Ireland | "School of Materials, University Of Manchester, Manchester, United Kingdom, "National Graphene Institute, Manchester, United Kingdom, "Institute for Macromolecular Chemistry, Albert-Ludwigs-University of Freiburg, Freiburg, Germany, "Freiburg Materials Research Center FMF, Freiburg, Germany | National Center for Metallurgical Research (CEN- IM-CSIC)), Madrid, Spain, 'Oak Ridge National Laboratory, Dak Ridge, USA, '3Centro Nacional de Microscopía Electrónica (CNME), Universidad Complutense de Madrid, Madrid, Spain |
| | Department of Materials Science University of Patras, Patras, Greece | HIGHLIGHT QUANTUM-CONFINED AND ENHANCED OPTICAL ABSORPTION OF COLLOIDAL PBS QUANTUM DOTS AT WAVELENGTHS WITH EXPECTED BULK BEHAVIOR | HIGH LATERAL RESOLUTION AUGER IMAGING OF DIFFERENT CARBON ALLOTROPES | NEW MEDIUM C NANOSTRUCTURED BAINITIC STEEL CONCEPT |
| 15.20 | | <u>Carlo Giansante</u> ' | Dr. Viliam Vretenár ¹ , Dr. Lubomír Vančo ¹ , DiplIng. Peter Vogrinčič ¹ , Dr. Marian Varga ² , Dr. Mário Kotlár ¹ , Dr. Viera Skákalová ¹ , Dr. Marian Veselý ¹ | Dr Yahya Palizdar', Mr. F Moradi', Prof. F. G. Caballero ² , Dr C. Garcia-Mateo ² , Dr A. Kolahi ¹ |
| | | ¹ Dipartimento Di Fisica, Università Del Salento, Lecce, Italy, ² NANOTEC- CNR, Istituto di nanotecnologia, Lecce, Italy | "STU Centre For Nanodiagnostics, Bratislava, Slovakia, ² Institute of Physics of the ASCR, v.v.i., Praha, Czech Republic | ¹ Nanotechnology and Advanced Materials, Materials and Energy Research Center (MERC), Tehran, Iran, ² Spanish National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain |
| | HIGHLIGHT SELECTIVE MAGNETIC SEPARATION USING MAGNETIC NANO-POWDERS FOR ENGINEERING APPLICATIONS | HIGHLIGHT FORMATION MECHANISM AND OSTWALD RIPENING OF SEMICONDUCTOR NANOPLATELETS | PREPARATION AND THERMAL CONDUCTIVITY OF NANOCELLULOSE-BASED FOAMS | MULTI-SCALE CHARACTERISATION OF A MICRO- ALLOYED "CARBIDE-FREE BAINITE" STEEL |
| 15.40 | Dr Angelo Ferraro, <u>Mr Evangelos Hristoforou</u> ¹ | Dr. Andreas Riedinger ¹ | Ms Varvara Apostolopoulou Kalkavoura¹. Ms Korneliya Gordeyeva¹. Professor Lennart Bergström¹ | <u>Zélie Tournoud</u> ¹² , Patricia Donnadieu ¹ , Didier Huin ² , Alexis Deschamps ¹ , Gilles Renou ¹ |
| | 'National Tu Of Athens, Athens, Greece | ¹ Optical Materials Engineering Laboratory, ETH , Zürich, Switzerland | ¹ Stockholm University, Dept. of Materials and Environmental Chemistry, Stockholm, Sweden | ¹ Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000 Grenoble, France, ² ArcelorMitlal Research Centre, F-57280 Maizières-lès-Metz, France |
| | HIGHLIGHT GRAPHENE DERIVED ROOM TEMPERATURE ANTIFERROMAGNETS AND PROMISING SPINTRONIC MATERIALS | HIGHLIGHT LIGHT EMITTING DIDDES, AMPLIFIED SPONTANEOUS EMISSION, AND LASING FROM COLLOIDAL NANO- CRYSTAL FILMS | KEYNOTE/INVITED NANOCELLULOSE AS FUNCTIONAL MATERIALS FOR ELECTRONIC AND ENERGY APPLICATIONS | NANOSTRUCTURED BAINITE THERMAL STABILITY |
| 16.00 | Prof. Jiří Tuček¹, Dr. Piotr Blonski¹, Prof. Dr. Michal Otyepka¹, Prof. Dr. Radek Zbořil¹ | Roman Krahne ¹ | | <u>Dr. Carlos Garcia-Mateo</u> ', Mr Miguel A. Santajuana', Dr Jose A. Jimenez', Dr Matthias Kuntz ² , Prof Francisca G. Caballero' |
| | Regional Centre Of Advanced Technologies And Materials, Faculty Of Science, Palacky University In Olomouc, Olomouc, Czech Republic | ¹Istituto Italiano Di Tecnologia, Genoa, Italy | Professor Pooi See Lee ¹ | ¹ National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, ² Robert-Bosch GmbH, Stuttgart, Germany |
| | MAGNETO-PLASMONIC HYBRID FePt/SiO ² /Au NANOPARTICLES AS NOVEL THERANOSTIC TOOLS FOR CANCER TREATMENTS EVALUATED IN-VITRO | OPTOELECTRONIC PROPERTIES OF A DISPERSION OF CASE QUANTUM DOTS WITHIN A CDS BARRIER MATERIAL | | TOWARDS A MORE SUSTAINABLE MANUFACTURING OF ADVANCED MULTIPHASE STEELS THROUGH THE ACCELERATION OF BAINITE FORMATION |
| 16.20 | Dr. Kristina Zuzek Rozman ¹² , Irena Abramovic ¹ , Dr. Saso Sturm ¹² , Dr. Samo Hudoklin ³ , Dr. Mateja Erdani Kreft ² , Dr. Nina Kostevsek ¹ , ² | Mr Emanuele Alberto Slejko [†] , PhD Vanni Lughi [†] | | Mr. Alfonso Navarro-López¹, Dr. Javier Hidalgo Garcia¹, Prof. dr. ir. Jilt Sietsma¹, Dr. Maria J. Santofimia Navarro¹ |
| | ¹ Jozef Slefan Institute, Ljubljana, Slovenia, ² Jozef Stefan International Postgraduation School, Ljubljana, Slovenia, ³ Institute for Cell Biology, Medical Facuty University of Ljubljana, Ljubljana, Slovenia | ¹ Department of Engineering and Architecture, Università Degli Studi Di Trieste, Trieste, Italy | | ¹ Delft University of Technology, Delft, Netherlands |
| | HIGHLIGHT ONE-STEP ROUTE TO IRON OXIDE HOLLOW NANOCUBOIDS BY CLUSTER CONDENSATION FOR THE AS REMOVAL IN DRINKING WATER | SYNTHESIS AND OPTICAL CHARACTERIZATION OF HIGHLY LUMINESCENT SILICA COATED CdSe/CdS/ ZnS Core/Shell Quantum Dots | Nanyang Technological University, School of Materials Science and Engineering, 50 Nanyang Avenue, Blk N4.1, Singapore | NEW PROCESS OF STEEL HEAT TREATMENT LEADING TO A MULTIPHASE, NANOCRYSTALLINE MICROSTRUCTURE WITH HIGH MECHANICAL PROPERTIES |
| 16.40 | Dr Lluis Balcells', Dr Carlos Martinez-Boubeta ² , Sr José Cisneros-Fernández', Ms Aanchal Alagh', Mr Jorge Flores', Dr. Bernat Bozzo', Dr Judit Oro', Ms Núria Bagués', Dr Konstantinos Simeonidis's, Prof Jordi Arbiol ² , Dr Carlos Frontera', Dr Narcis Mestres ¹ , Prof Benjamín Martinez ¹ | <u>Ms. Elleke van Harten</u> ¹, Ms. Jantina Fokkema¹², Prof. dr. Andries Meijerink¹ | | Professor Wieslaw Swiatnicki¹, Piotr Radowski¹, Mariusz Dabrowski¹, Karolina Dudzinska¹, Dr Emilia Skolek¹ |
| | ¹Icmab-csic, Bellaterra, Spain, ²Freelancer, Santiago de Compostela, Spain, ³Universidad Técnica Federico Santa Maria, Valparaiso, Chile, ⁴University of Thessaly, Thessaloniki, Greece, ³Institució Catalana de Recerca i Estudis Avancats, Barcelona, Spain | ¹ Condensed Matter and Interfaces, Debye Institute for Nanomaterials Science, Utrecht University, Utrecht, Netherlands, ² Soft Condensed Matter and Biophysics, Debye Institute for Nanomaterials Science, Utrecht University, Utrecht, Netherlands | | ¹ Warsaw University of Technology, Faculty of Materials Science & Technology, Warszawa, Poland |
| | . , | | | |



| Symposium | B2 | B3 | В7 | B8 |
|---------------|--|---|--|---|
| Room | Aimilios Riadis Hall/M2 | CR I Hall/M2 | CR III Hall/M2 | Conference Room 1/M1 |
| Session Title | Titanium | Polycrystalline Ni Base Superalloys II | Design and Synthesis of MOFs and Innovative Hybrids | Physical Properties |
| Chairperson | Guillermo Renquena | S. Milenkovic | Bartolomeo Civalleri | Nick Jones |
| | IMPROVING THE MECHANICAL PROPERTIES OF THE BETA TITANIUM ALLOY TI 38-644 BY MEANS OF THERMOHYDROGEN PROCESSING | EFFECTS OF STRAIN RATE AND TEMPERATURE VARIA- TION ON DISLOCATION STRUCTURES AND FAULTS IN A POLYCRYSTALLINE Ni-BASED SUPERALLOY | ONE-POT SYNTHESIS OF NOVEL BASIC BARIUM- PYROGLUTAMATE-BASED MOF | TRACER DIFFUSION IN HIGH ENTROPY ALLOYS |
| 15.00 | Prof. Dr. Hans-Juergen Christ ¹ . Vitali Macin ¹ , Peter Schmidt ² | Regina Schlütter', Olivier Messé', Enrique Galindo-Nava', Thomas Jackson², Catherine Rae' | Dr. Gisela Orcajo ¹ , PhD. Pedro Leo ¹ , Dr. David Briones ¹ , Dr. Antonio Rodríguez-Diéguez ² , Prof. Guillermo Calleja ¹ | <u>Dr. Sergiy Divinski</u> [†] |
| | 'Universitaet Siegen, Siegen, Germany, 'SGS Institut Fresenius GmbH, Dortmund, Germany | ¹ Department of Malerials Science and Metallurgy, University of Cambridge, Cambridge, CB3 0FS, United Kingdom, ² Rolls- Rayce plc, Derby, DE24 8BJ, United Kingdom | Department of Chemical and Energy Technology, Universidad Rey Juan Carlos, Móstoles, España, ² Inorganic Chemistry Department, University of Granada, Granada, Spain | 'Institute of Materials Physics, University of Münster, Germany, Münster, Germany |
| | EFFECT OF CONSTITUENT PHASES ON MECHANICAL PROPERTIES OF A BETA TITANIUM ALLOY | THE EFFECTS OF MICROSTRUCTURE AND MICROTEXTURE GENERATED DURING SOLIDIFICATION ON DEFORMATION MICROMECHANISM IN IN713C NICKEL BASED SUPERALLOY | MOFs BUILT UP FROM (POLY)PHENOLATE LIGANDS: CHALLENGES AND OPPORTUNITIES | MICROSTRUCTURE AND HIGH TEMPERATURE OXI- DATION BEHAVIOR OF REFRACTORY HIGH ENTROPY ALLOYS Nb-Mo-Cr-Ti-Al AND Ta-Mo-Cr-Ti-Al |
| 15.20 | Seung Eon Kim ¹ , Ka Ram Lim ¹ , Young Sang Na ¹ | Mr. Gang Liu¹, Mr. Sean Winwood², Mrs. Kaite Rhodes², Dr. Soran Birosca¹ | Thomas Devic ^{1,2} , Lucy Cooper ² , Georges Mouchaham ² , Hala Assi ² , Tania Hidalgo ² , Martin Gorman ² , Laura Pardo Perez ² , Nathalie Guillou, Charlotte Martineau ² , Christian Serre ² , Patricia Horcajada ² | DrIng. Bronislava Gorr ¹ , M.Sc. Franz Mueller ¹ , Prof. Hans-Juergen Christ ¹ , DiplIng. Hans Chen ² , DrIng. Alexander Kauffmann ² , Prof. Martin Heilmaier ² |
| | 'Korea Institute Of Materials Science, Changwon, South Korea | ¹ College of Engineering, Swansea University, Swansea. United Kingdom, ² Cummins Turbo Technologies, Huddersfield HD1 6RA, United Kingdom | 'CNRS - Institut des Materiaux Jean Rouxel, Nantes, France, 'CNRS - Institut Lavoisier Versailles, Versailles, France | "University of Siegen, Siegen, Germany, ² Karlsruhe Institute of Technology, Karlsruhe, Germany |
| | INVESTIGATION OF THE CHEMICAL PARTITIONING DURING THE DECOMPOSITION OF THE BETA PHASE IN TI-5553 ALLOY | EFFECTS OF ADDITION OF LANTHANIDE OXIDES ON MICROSTRUCTURE EVOLUTION AND MECHANICAL PROPERTIES OF ALLOY 690 BASED OXIDE DISPERSION STRENGTHENED ALLOYS | HIGHLIGHT SMART SUPRAMOFS: SMART SUPRAMOLECULAR ASSEMBLY WITH IN-SITU GENERATED MOF CONSTITUENTS | DETERMINATION OF LATTICE DISTORTION AND MECHANICAL PROPERTIES OF SINGLE PHASE HIGH-ENTROPY ALLOYS |
| 15.40 | Mr. Morgan Goetz ^{1,4} , Mr. Moukrane Dehmas ² , Mrs. Elisabeth Aeby-Gautier ¹ , Mr. Benoît Appolaire ² , Mrs. Sandra Andrieu ⁴ , Mrs. Marion Descoins ³ , Mr. Dominique Mangelinck ² | <u>Dr Young-bum Chun</u> ¹, Dr Gyeong Su Shin¹, Mr Chang Hee Han¹, Dr Jinsung Jang¹ | Mr. Abhijeet Chaudhari!, Professor Jin-Chong Tan' | Junhee Han ¹ , Pramote Thirathipviwat ^{1,2} , Professor Jens Freudenberger ^{1,3} , Jozef Bednarcik ⁴ , Thomas Gemming ¹ |
| | "Institut Jean Lamour, Metz, France, ² CIRIMAT - ENCIASET, Toulouse, France, ³ Laboratoire d'Etude des Microstructures - ONERA, Chatillon, France, ⁵ Safran Landing Systems, Oloran Sainte Marie, France, "MAZNP, Faculté des Sciences et Techniques, Marseille, France | ¹ Nuclear Materials Development Division, Korea Atomic Energy Research Institute, Deajeon, South Korea | . 'Department of Engineering Science. University Of Oxford. Oxford, United Kingdom | "IFW Dresden, Dresden, Germany, *TU Dresden, Institute of Materials Science, Dresden, Germany, *TU Bergakademie Freiberg, Institute of Materials Science, Freiberg, Germany, *DESY Photon Science, Hamburg, Germany |
| | ORIGIN OF (332)<113> TWINNING SYSTEM IN METASTABLE BETA TITANIUM ALLOYS | THE EFFECTS OF FORGING STRAIN ON GRAIN SIZE EVOLUTION IN RR1000 NICKEL BASE SUPERALLOY DURING SUPER SOLVUS HEAT TREATMENT. | GEL-BASED SHAPING OF ZIRCONIUM METAL-ORGANIC FRAMEWORKS | ASSESSING LOCAL LATTICE STRAIN IN AN HEA USING NEUTRON TOTAL SCATTERING |
| 16.00 | Dr. Philippe Castany ¹ . Dr. Yang Yang ¹ . Dr. Emmanuel Bertrand ² . Pr. Thierry Gloriant ¹ | <u>Mr Benjamin Jeans</u> ¹, Dr Mark Hardy², Mr Iain Parr², Dr Soran Birosca¹ | Dr. Bart Bueken ¹ , Niels Van Velthoven ¹ , Dr. Tom Willhammar ² , Prof. Rob Ameloot ¹ , Prof. Sara Bals ² , Prof. Dirk De Vos ¹ , Dr. Thomas Bennett ⁰ | Mr Lewis R Owen ¹² , Dr Helen Y Playford ² , Dr Ed J Pickering ³ , Dr Howard J Stone ¹ , Dr Matthew Tucker ⁴ , Dr Nicholas G Jones ¹ |
| | 'INSA Rennes, ISCR-CM, Rennes, France, ¹ Institut des Matériaux Jean Rouxel (IMN), Nantes, France | ^I Institute of Structural Materials, United Kingdom, ² Rolls Royce plc, United Kingdom | Centre for Surface Chemistry and Catalysis. Ku Leuven. Leuven. Belgium. EMAT. University of Antwerp. Antwerp. Belgium. Department of Materials Science and Metallurgy, University of Cambridge, Cambridge, United Kingdom | Department of Materials Science and Metallurgy. University Of Cambridge. Cambridge. UK. 'ISIS Neutron and Muon Source. STFC, Didcot, Oxford, UK. 'School of Materials, University of Manchester, Manchester, UK. 'Spallation Neutron Source, Oak Ridge National Laboratory, US |
| | MICROSTRUCTURAL OPTIMIZATION AND DEFORMATION MECHANISM STUDY OF A METASTABLE BETA TITANIUM ALLOY | INFLUENCE OF THE MICROSTRUCTURE AND STRESS ON THE CREEP DEFORMATION MICROMECHANISMS IN THE AD730 TM Ni-BASED SUPERALLOY | NOVEL FUNCTIONAL 3D POROUS BISMUTH-BASED METAL-ORGANIC FRAMEWORK | PHASE-FIELD SIMULATION OF TRACER DIFFUSION IN HIGH ENTROPY ALLOYS |
| 16.20 | Dr Junheng Gao', Prof. W.Mark Rainforth ¹ | Winnie Vultos', Florence Pettinari-Sturmel ¹ , Muriel Hantcherli ¹ , Joël Douin ¹ , Louis Thébaud ^{2,3} Patrick Villechaise ² , Jonathan Cormier ² , Alexandre Devaux ³ | Dr. Sérgio M. F. Vilela¹, Dr. Thomas Devic², Dr. Patricia Horcajada¹ | Katrin Abrahams ¹ , Daniel Gaertner ² , Matthias Stratmann ¹ , Dr. Oleg Shchyglo ¹ , PD Dr. S.V. Divinski ² , Prof. Dr. Ingo Steinbach ¹ |
| | 'The University Of Sheffield , United Kingdom | ¹ CEMES-CNRS, BP 94347, 29 rue Jeanne Marvig, 31055 Toulouse cedex ⁴ , France, ² Institut Pprime, UPR CNRS 3346 Physics and Mechanics of Materials Department, ISAE-ENSMA BP 40109, 86961 Futuroscope - Chasse- neuil, France, ³ Aubert & Duval, Site des Ancizes BP1, 63770 Les Ancizes Cedex, France | 'IMDEA Energy, Móstoles, Spain, 'Institut de Matériaux de Nantes, Nantes, France | 'Interdisciplinary Centre for Advanced Materials Simulation (ICAMS), Ruhr-University Bochum, Germany, 'Institute of Materials Physics, University of Münster, Germany |
| | CHARACTERIZATION OF ENERGY DISSIPATION CAPACITY OF 6 METASTABLE TITANIUM ALLOYS AS A FUNCTION OF MICROSTRUCTURE | INFLUENCE OF A THERMOMECHANICAL TREATMENT ON Y PRECIPITATES AND THE CREEP BEHAVIOR OF THE NEW NICKEL BASE SUPERALLOY AD730 | | ELASTIC BEHAVIOR OF SINGLE CRYSTAL HIGH ENTROPY CANTOR-ALLOY |
| 16.40 | Dr. Wafa Elmay ¹ , Xavier Gabrion ² , Associate Professor Pascal Laheurte ¹ , Associate Professor Sophie Berveiller ¹ | Anne Hesselink', Mikhail Solovev ¹ , Jan-Marc Tiemann ¹ , Prof. DrIng. Ulrich Krupp ¹ , Prof. DrIng Bernhard Adams ¹ | | <u>DipL-Ing. Fabian Krieg</u> ¹ , M.Sc. Mike Mosbacher ¹ , Prof. DrIng. Uwe Glatzel ¹ |
| | ¹ Laboratory LEM3 . UMR CNRS 7239, Metz. France. ² Laboratory FEMTO-ST UMR 6174, 25000 Besançon, France | ¹ Hochschule Osnabrueck, Osnabrueck, Germany | | [†] Metals and Alloys, University Bayreuth, Bayreuth, Germany |

EUROMAT2017 10<u>1</u>



| Symposium | B10 | B11 | C1 | C4 |
|---------------|--|---|---|---|
| Room | Maurice Saltiel Hall II/M2 | Maurice Saltiel Hall III/M2 | Friends of Music Hall/M1 | Conference Room 4/M1 |
| Session Title | Corrosion & Wear II | Steels | C1.2: Coatings deposition routes and novel characterization techniques 2/5 Deposition routes II | Additive Manufacturing of polymers 1 |
| Chairperson | Ahmet Yilmaz | T. Klüsner | N. Bagcivan, H. Biederman | Ugo Lafont |
| | HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY OF NICKEL BASE ALLOYUNS NO7718 IN RELATION TO THE MATERIAL MICROSTRUCTURE | INFLUENCE OF THE G-PHASE PRECIPITATION ON MECHANICAL PROPERTIES IN AGED DUPLEX STAINLESS STEEL | KEYNOTE/INVITED AN APPLICATION FOR THE STATIC LARGE AREA PVD TECHNOLOGY WITH A ROTARY CATHODE ARRAY: DEPOSITION OF NEXT GENERATION MOX ACTIVE LAYERS FOR AM-TFT DISPLAY BACKPLANES | A STUDY OF ADDITIVELY MANUFACTURED SPACE HARDWARE - TOWARDS AN END-TO-END PROCESS |
| 15.00 | Olesya Gosheva ¹ , Prof. Matthias Oechsner, Dr. Georg Andersohn, Dr. Jutta Kloewer ² | Romain Badyka ¹ , Dr Cristelle Pareige ¹ , Dr Sébastien Saillet ² , Dr Christophe Domain ² | | <u>Dr. Tommaso Ghidini</u> ', Dr. Martina Meisnar ¹ , Dr. Johannes Gumpinger ¹ , Dr. Laurent Pambaguian ¹ , Dr. Ana Brandao ¹ |
| | 'Institut Für Werkstoffkunde TU-darmstadt, Darmstadt, Germany, ² VDM Metals International GmbH. Altena, Germany | Groupe de Physique des Matériaux Normandie Université, UMR 6634 CNRS, Rouen, France, ² EDF R&D Département Matériaux et Mécanique des Composants, Moret sur Loing, France | Dr. Marcus Bender¹, Hyun Chan Park¹, Ajay Sampath Bhoolokam¹, Andreas Klöppet¹, Markus Hanika¹ | ¹ European Space Agency, Noordwijk, The Netherlands |
| | SYSTEMATIC INVESTIGATION OF MICROSTRUCTURAL AND ENVIRONMENTAL EFFECTS ON HYDROGEN EMBRITTLEMENT OF FERRITIC STEELS | CHARACTERISATION OF DEFORMATION AND FRACTURE BEHAVIOR OF STAINLESS DUPLEX STEELS AT SUB-ZERO TEMPERATURES BY MEANS OF EBSD-ANALYSIS | 'Applied Malerials GmbH & Co. KG, Alzenau, Germany | INFLUENCE OF SPATIAL ORIENTATION ON MECHAN- ICAL AND FUNCTIONAL PROPERTIES OF 3D PRINTED THERMOPLASTIC POLYMER PARTS |
| 15.20 | M.Sc. Waldemar Krieger¹, Dr. Sergiy Merzlikin¹, Dr. Asif Bashir¹, Dr. Hauke Springer¹, Dr. Michael Rohwerder¹ | <u>DrIng. Marina Knyazeva</u> ¹² , Prof. DrIng. Frank Walther ¹ , Prof. DrIng. Michael Pohl ² | | Anna Daurskikh¹, <u>Antonella Sgambati</u> ². David Graça¹, Dr. Marco Berg², Aurora Baptista², Mario Angelo², Dr. Ugo Lafont⁴ |
| | 'Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany | ¹ TU Dortmund University / Department of Materials Test Engineering (WPT), Dortmund, Germany, ² Ruhr-University Bochum / Department of Materials Testing (WP), Bochum, Germany | | ¹ Sonaca Space GmbH. Berlin. Germany. ² 0HB System AG. Bremen, Germany. ³ BEEVERYCREATIVE, Aveiro, Portugat. ⁴ ESA, Noordwijk, Netherlands |
| | COPPER SURFACE CHANGES DURING WET PLATING TESTS IN ANTI-BACTERIAL SURFACE RESEARCH | INFLUENCE OF MECHANICAL STRESS ON THE PROPERTIES OF STEELS DESIGNED FOR GENERATION IV. REACTORS FUEL CLADDING | THERMAL SPRAY COATINGS DEPOSITION ON BALLISTIC ARAMIDE TEXTILES FOR IMPROVED PERFORMANCE LIGHTWEIGHT PROTECTIVE PANELS | A STUDY ON THE INFLUENCE OF FIBRE CONTENT ON THE MECHANICAL BEHAVIOUR OF 3D PRINTED THERMOPLASTIC PARTS |
| 15.40 | <u>Jiaqi Luo</u> ¹² , Dr. Christina Hein ³ , Prof. Dr. Marc Solioz ⁴ , Prof. Dr. Jean François Pierson ² , Prof. Dr. Frank Mücklich ¹ | Ing. Zbyněk Špirit ^{1,2} , Ing. Michal Chocholoušek ¹ , Marek Šíma ¹ | Mr Ilias Georgiopoulos ¹ . Mr Petros Ioannou ¹ , Ms Zoi Tatoudi ¹ , Dr. Silvia Pavlidou ¹ , Dr. Constantina Andreouli ¹ | Isaac Ferreira ¹² , <u>PhD Margarida Machado</u> ¹ , André J. Cavaleiro ¹ , Rui Neto ¹² , Jorge Lino Alves ¹² , Ana Reis ¹² |
| | 'Chair of Functional Materials, Saarland University, Germa- ny: Institut Jean Lamour, Université de Lorraine, France, 'Inorganic Solid State Chemistry, Saarland University, Germany: Pepartment of Clinical Research, University of Bern, Switzerland | Research Centre Rez, Pilsen, Czech Republic, ² University of West Bohemia, Pilsen, Czech Republic | [†] Mirtec S.a. 34100 Chalkida, Greece | INEGI - Institute of Science and Innovation in Mechani- cal and Industrial Engineering, Porto, Portugal, ² FEUP - Faculty of Engineering of University of Porto, Porto, Portugal |
| | ELECTROCHEMICAL PERFORMANCE OF HARDMETAL ALLOYS IN DIFFERENT CORROSIVE MEDIA | QUANTIFICATION OF PEARLITE SPHEROIDISATION IN RAILWAY WHEEL STEEL USING ORIENTATION IMAGING MICROSCOPY AND MICROSTRUCTURAL IMAGE ANALYSIS | MICROSTRUCTURAL ANALYSIS OF 200 µm THIN SHEETS COATED BY LASER CLADDING | TWO-PHOTON POLYMERIZATION TECHNIQUE FOR POLYMERIC PHOTONIC STRUCTURES |
| 16.00 | <u>Dr. Rúben Santos</u> ¹, Fábio Rodrigues², Prof. Carlos Fonseca¹, Dr. Eduardo Soares², Prof. Manuel Vieira¹, Prof. Luís Malheiros¹ | <u>Lic. Eng. Dimitrios Nikas</u> ', Docent Johan Ahlström' | Tobias Gabriel ¹ , DrIng. Florian Scherm ¹ , Prof. Dr. Marek Gorywoda ² , Prof. DrIng. Uwe Glatzel ¹ | <u>Lei Zheng</u> ¹. ¹ . Kestutis Kurselis¹, Prof. Cartsen Rein- hardt¹²², Dr. Andrey Evlyukhin¹, Dr. Roman Kiyan¹, Prof. Boris Chichkov¹ |
| | "CEMUC, Department of Metallurgical and Materials Engineering, University of Porto, Porto, Portugal, "DURIT, Metalurgia Portuguesa do Tungsténio, Lda, Albergaria-a-Velha, Portugal | Chalmers University of Technology, Gothenburg, Sweden | "University Bayreuth, Metals And Alloys, Bayreuth, Germany, ² University of Applied Sciences Hof, Materials Engineering, Hof, Germany | ¹ Laser Zentrum Hannover e.v., Hannover, Germany, ² Laboratory for Nano and Quantum Engineering, Hannover, Germany, ³ Hochshule Bremen, Bremen, Germany |
| | EVALUATION OF ORGANIC COATINGS ON METALLIC SUBSTRATES FOR USE IN FOOD PACKAGING | THE RELATION OF GRAIN SIZE DISTRIBUTION AND MECHANICAL PROPERTIES OF INTERSTITIAL FREE STEEL | EFFECT OF BATH COMPOSITION FOR Ni-P COATINGS ON CARBON FIBRES | 4D PRINTING FOR SPACE APPLICATIONS |
| 16.20 | Dr Azarias Mavropoulos ¹² . Dr Oliver Lewis ² | Mr. Wei Li¹, Prof.dr.ir. Jilt Sietsma¹ | Anıl Alten ¹ , Dr. Gökçe Hapçı Ağaoğlu ¹ , Dr. Eray Erzi ¹ , Assoc. Prof. Derya Dışpınar ¹ , Prof. Dr. Gökhan Orhan ¹ | <u>Dr Adam Mitchell'</u> , Dr Ugo Lafont ¹ , Dr Malgorzata Holynska ¹ , Dr Christopher Semprimoschnig ¹ |
| | "Physical Metallurgy Laboratory, Mechanical Engineer- ing Department, Aristotle University of Thessaloniki, THESSALONIKI, Greece, "Materials and Engineering Research Institute Sheffield Hallam University, SHEFFIELD, United Kingdom | Department of Materials Science and Engineering, Delft University of Technology, Mekelweg ² , 2628 CD Delft. The Netherlands | 'Istanbul University | 'Components and Materials' Physics and Chemistry Evaluation & Standardisation Division (TEC-QEE) European Space Research and Technology Centre (ESTEC), European Space Agency (ESA), Noordwijk, Netherlands |
| | AN X-RAY DI FFRACTION ANALYSIS OF THE SUR- FACE AND SUB-SURFACE DAMAGE OF 0.2 WT%-C MARTENSITE AFTER THREE-BODY ABRASION | CRACK INITIATION IN FERRITIC MARTENSITIC STEEL T9' AND AUSTENITIC '.9'0 IN PbBi | ECR PLASMA DEPOSITED a-SiCN: H AS INSULATING LAYER IN PIEZOCERAMIC MODULES | |
| 16.40 | Dr Subhankar Das Bakshi ¹ , <u>Ms. Divya Sinha</u> ¹ , Dr Sandip Ghosh Chowdhury ² , Mr Vinay Mahashabde ¹ | Michal Chocholoušek', <u>Fosca Di Gabriele</u> ¹ , Anna Hojná', Zbyněk Špirit ¹ | Dr. Siegfried Peter ¹ , B. Sc. Yevgen Vasin ¹ , Dr. Florian Speck ¹ , M. Sc. Samir Mammadov ¹ , Prof. Dr. Thomas Seyller ¹ | |
| | 'Tata Steel Limited, Jamshedpur, India, 'National Metallurgical Laboratory, CSIR, Jamshedpur, India | 'Centrum výzkumu Řež s.r.o., Husinec-Řež, Czech Republic | ¹ Technische Universität Chemnitz. Institut für Physik, Professur für Technische Physik, D-09107 Chemnitz, Germany | |
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| Part | Room | F 319/M1 | Artist Café/M1 | Museum Hall /M2 | I-15/M1 |
| PROCESS READ STREET, IN CASE OF THE ADD STREET, | Session Title | | Tomography & Topography | | Metals under extreme conditions |
| RECEIVED FOR STATE OF | Chairperson | Yu. Ivanisenko, T Lowe | Peter Voorhees, Eric Maire | Vincent Mauchamp | Dimitris Christofilos |
| D. 1883 Signary: 18. Singley President Control Security Control Control Security Control Control Security Control Control Security Control Control Security Control Control Security Control C | | THERMOMECHANICAL PROCESSING AND SEVERE | TION: IN SITU LAMINOGRAPHY MEASUREMENTS | STRUCTURE OF COLLOIDAL MONOLAYER ${\rm In}_2{\rm Se}_3$ Nanosheets | EQUATION OF STATE AND SOUND VELOCITY OF CONDENSED LIQUID ALKALINE ELEMENTS BY PICOSECOND ACOUSTICS AT HIGH PRESSURE |
| Company Amended and Secretary Company Secretary Company Amended and Secretary Company Amended and Secretary Company Amended and Secretary Company Company Amended and Secretary Company Comp | 15.00 | | | Giannini ³ , Roberto Gaspari ¹ , Sedat Dogan ¹ , Stefano Perissinotto ⁴ , Sandeep Ghosh ¹ , Roman Krahne ¹ , | Professor Frederic Decremps ¹ , Assistant Professor Simon Ayrinhac ¹ , researcher Michel Gauthier ¹ |
| ## SERVE LANG COMMON PROCESSOR ## SERVE LANG COMMON PROCESSOR ## Parties Part Let 10 ft and Can' to Yearn Approach Assessor Programme Application of the Common Processor Proc | | | France, ² KIT/Institute of photon science and synchrotron radiation, Karlsruhe, Germany, ³ The European Synchrotron | Consiglio Nazionale delle Ricerche, Parma, Italy, ³Istituto di Cristallografia, Consiglio Nazionale delle Ricerche, Bari, Italy, ⁴Istituto Italiano di Tecnologia (IIT@ PoliMi), Milano, Italy, ¹Università degli Studi di Genova, | ¹ Sorbonne Université, Paris, France |
| Modernated Dr. Robert Schaeper Brogleton Houseand Brogleton Hous | | | TRON X-RAY CHARACTERISATION OF SEMI-SOLID | BY GEOMETRIC PHASE ANALYSIS AND SCANNING | RUBIDIUM AT EXTREME CONDITIONS |
| Modestant, Name of Long and Compared and Compared and Compared And Compared and Compared And Com | 15.20 | Belgorod, Russian Federation, ² Karlsruhe Institute of Technology, Institute of Nanotechnology, | | Bogusława Kurowska ¹ , MSc Marta Bilska ¹ , | |
| PLASTICITY IN A GOLD SUB-MICRON (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN A GOLD SUB-MICRON (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN A GOLD SUB-MICRON (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN THE SUB-MICRO (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN THE SUB-MICRO (CRISTAL TO COMMON HORSE PROSECTED SCAM- THE CRISTAN PROPERTY IN THE SUB-MICRO (CRISTAN PROPERTY IN THE SUB-MICRO CRISTAN PROP | | | Manchester, United Kingdom, ² Research Complex at Harwell, Harwell, United Kingdom, ³ Diamond Light | al. Lotników 32/46, 02-668 Warsaw, Poland, | ¹ CLNS - Istituto Italiano di Tecnologia, Rome, Italy, ² Istituto Nazionale di Ottica, CNR-INO, Firenze, Italy |
| Dr. Coulame Bolland P. Dr. Charles Stages St | | MICROSTRUCTURAL EVOLUTION IN A SINGLE PHASE FCC HIGH ENTROPY ALLOY DURING HIGH PRESSURE | | STRUCTURES BY ABERRATION-CORRECTED SCAN- | |
| Control of Monocontens of A Nontechnology | 15.40 | | Dr. Guillaume Beutier¹, Dr. Gilbert Chahine³, Pr. Dr. Eugene Rabkin⁴, Dr. Marie-Ingrid Richard², Dr. Stéphane Labat², Dr. Guillaume Parry¹, | Dr Gilles Patriarche [†] , Dr Benoît Dubertret | Bianca Haberl ¹ , Jamie J. Molaison ² , Marshall T. Mc- Donnell ¹ , Eero Holmström ³ , Jörg C. Neuefeind ¹ , Chris J. Benmore ⁴ , Luke .L Daemen ¹ , Reinhard Boehler ^{1,5} , Matthew G. Tucker ¹ |
| ATOMIC LEPEL STRICTURAL MODIFICATIONS NI SUPRAL BULK NETALLIC CLASSES PRESSURES PRESSURES PRESSURES Assec Professor Servation Dimitrakegales' Der Janabang Jang' assect prof. (angeing race) assec prof. Janabang Jang' assect prof. (angeing race) assec prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect prof. Janabang Jang' assect prof. (angeing race) assect p | | [†] Indian Institute of Science, Bangalore, Bangalore, India | France, ² Aix-Marseille Université, CNRS, IM2NP UMR7334, Marseille, France, ³ ESRF, Grenoble, France, ⁴ Technion , Haifa, Israel, ⁵ Swiss Light Source Paul | (C2N), Marcoussis, France, ² Laboratoire de Physique et | |
| assoc prof. xiaodong wang! ms. suya liu¹. prof. dongxan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 12. Degram dinayan zhang'. dr; yula lvanisenko' 13. Degram dinayan zhang'. dr; yula lvanisenko' 14. Degram dinayan zhang'. dr; yula lunisensi ye dilagow. diasgow. diaggow. diasgow. diasgow. diaggow. diasgow. diaggow | | ATOMIC LEVEL STRUCTURAL MODIFICATIONS INDUCED BY SEVERE PLASTIC SHEAR DEFORMATION | VOLUME FRACTION ON THE 3D FAILURE MECHA- | ULTRA-THIN InN/GaN QUANTUM WELLS FROM | |
| Singopore Singapore Academy of Sciences, Warsaw, Poland. "Institute of Physics, Polish Academy of Sciences, Warsaw, Poland." Sciences, Warsaw, Poland. "Physics, Polish Academy of Sciences, Warsaw, Poland." Sciences, Polish, Moscow, Nessa; "REC -Function Protonics Center, Boston, USA." Monometerials. Immanuel Kant Baltic Federal University, Kaliniagrad Russis. **NoNDESTRUCTIVE MATERIALS CHARACTERIZATION IN 13 DB Y LABORATORY DIFFRACTION CONTRAST MICROPHAM MARKED AND SET MONTRAST MODELING OF CARE Select LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **DEFAULT AND SECONOMICS OF CARE Select LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **DEFAULT AND SECONOMICS OF CARE Select LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **DEFAULT AND SECONOMICS OF CARE Select LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **DEFAULT AND SECONOMICS OF CARE Select LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **DEFAULT AND SECONOMICS OF CARE SELECT AND SECONOMICS OF CARE SELECT LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **DEFAULT AND SECONOMICS OF CARE SELECT AND SECONOMICS OF CARE SELECT LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **DEFAULT AND SECONOMICS OF CARE SELECT CARE SELECT LAMADWIRES CONTRAINING MAGNETIC NANOPRECIPITATIONS **Institute for Metals Superplasticity Problems, Russian Academy of Sciences U.B. Russian Federation, 'Past-Russian Academy of Sciences, U.B. Russian Federation, 'Past-Russian Academy of Sciences, U.B. Russian Federation, 'Past-Russian Academy of Sciences, U.B. Russian Federation, 'Past-Russian Federation, 'Past-Russian Academy of Sciences, U.B. Pawirishiego SB, Warszawa, Poland, 'Institute of Federation, Lamana Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Past-Russian Federation, 'Pa | 16.00 | assoc. prof. xiaodong wang ¹ , ms. suya liu ¹ , prof. | <u>Dr Peifeng Li</u> i. Dr Ruoxuan Huang² | Dr Calliope Bazioti', Isaak Vasileiadis', Assist, Pro- fessor Julita Smalc-Koziorowska', Assoc, Professor Slawomir Kret [®] , Dr Emmanouil Dimakis', Professor Thomas Kehagias', Professor Theodoros Karakostas', Professor Theodore Moustakas', Professor Philomela | |
| ### IN 3D BY LABORATORY DIFFRACTION CONTRAST TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY TOMOGRAPHY | | [†] Zhejiang University, Hangzhou, China | ² Singapore Institute of Manufacturing Technology, | Academy of Sciences , Warsaw, Poland, ³ Institute of Physics, Polish Academy of Sciences, Warsaw, Poland, ⁴ Department of Electrical and Computer Engineering, | |
| Dr. Ramii Murzaevi, Dr. Alexander Zhityaevi, Aygul Mukhametgalinai ² , Dr. Yury Tsarenko ³ , Prof. Vasily Rubanik ³ Dr. Piotr Tauzowski ³ , Prof. Sawomir Kret ³ , MSc Anna Kaleta ² , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Piotr Tauzowski ³ , Prof. Janusz Sadowski ^{2,3,4} Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Sakura Pascarelli ² , Dr. Olivier Mathon ² Dr. Palish Academy of Sciences, Ul. Pavińskiego Sb. Warszawa, Polish Academy of Sciences, Ul. Pawińskiego Sb. Warszawa, Polish Academy of Science Mathon ² Dr. Physics Polish Academy of Science Mathon ² Dr. Physics Polish Academy of Science Mathon ² Dr. Physics Palish Alexandro Physics Palish Alexandro Physics Palish Alexandro Physics Palish Alexandro Physics Palish Alexandro Physics Palish Alexandro Physics Palish Alexandro Physics Palish | | EFFECT OF ULTRASONIC TREATMENT ON THE MICROSTRUCTURE OF BULK NANOSTRUCTURED MATERIALS PROCESSED BY SEVERE PLASTIC | IN 3D BY LABORATORY DIFFRACTION CONTRAST | OF CORE SHELL NANOWIRES CONTAINING | |
| Academy of Sciences, U.f. Russian Federation, 'Bash-kir State University, Ufa, Russian Federation, 'Bash-kir State University, Ufa, Russian Sciences of Belarus. States, 'Xnova Technology' Ap.S. Koge, Denmark States, 'Xnova Technology' Ap.S. Koge, Denmark Polish Academy of Sciences, u.l. Pawinskiego 5B, Warszawa, Poland, 'Institute of Physics, Polish Academy of Sciences, al. Lotników 32/46, Warszawa, Poland, 'MAX-IV laboratory, Lund University, P.O. Box 11B, Lund, Sweden, 'Department of Physics and Electrical Engineering, Linnaeus University, Relation of Physics and Electrical Engineering, Linnaeus University, Kalmar, Sweden MICROALLOYED STEEL LAMINATED COMPOSITE PROCESSED BY HIGH-STRAIN RATE COMPRESSION TEST IMAGING STRAIN FIELDS BY PTYCHOGRAPHIC TOPOGRAPHY SPONSOR PRESENTATION. JEOL – DEVELOPMENT OF A NEW GENERATION MULTI-PURPOSE TRANSMISSION ELECTRON MICROSCOPE: JEOL F2 M.Eng Marcin Kwiecień', M.Eng Remigiusz Błoniarz', M.Eng Szymon Bajda', Prof. Janusz Majta' Neng Szymon Bajda', Prof. Janusz Majta' Steven Van Petegem', Ana Diaz', Ainara Irastorza', Maxime Dupraz' 'AGH University of Science and Technology, Krakow, Poland None Equilibrium Ab-Initio Molecular DYN Simulation of Thermal Conductivity of Science (AICES), RWTH Aachen University 52072, Aachen, Germany, 'Institute for Advanced Study in Computation Engineering Science (AICES), RWTH Aachen University 52072, Aachen, Germany, 'Institute of Mineral Engine Division of Moterial Science and Engineering Scie | 16.20 | Dr. Ramil' Murzaev ¹ , Dr. Alexander Zhilyaev ¹ , Aygul' Mukhametgalina ^{1,2} , Dr. Yury Tsarenko ³ , Prof. Vasily | Holzner ¹ , Florian Bachmann ² , Alan Lyckegaard ² , | Dr. Piotr Tauzowski ¹ , Prof. Sławomir Kret ² , | |
| PROCESSED BY HIGH-STRAIN RATE COMPRESSION TEST TOPOGRAPHY A NEW GENERATION MULTI-PURPOSE TRANSMIS- SION ELECTRON MICROSCOPE: JEOL F2 M.Eng Marcin Kwiecleń*, M.Eng Remigiusz Bkoniarz*, M.Eng Szymon Bajda*, Prof. Janusz Majta* 16.40 16.40 16.40 17. Aght University of Science and Technology. Krakow, Poland 18. April Scherrer Institut, CH-5232 Villigen, Switzerland Wisher Scherrer Institut of Mineral Institute of Mineral | | Academy of Sciences, Ufa, Russian Federation, ² Bash- kir State University, Ufa, Russia, ³ Institute of Technical Acoustics, National Academy of Sciences of Belarus, | ¹ Carl Zeiss X-ray Microscopy, Pleasanton, United States, ² Xnovo Technology ApS, Koge, Denmark | Polish Academy of Sciences, ul. Pawińskiego 5B, Warszawa, Poland, ² Institute of Physics, Polish Academy of Sciences, al. Lotników 32/46, Warsza- wa, Poland, ³ MAX-IV laboratory, Lund University, P.O. Box 118, Lund, Sweden, ⁴ Department of Physics and Electrical Engineering, Linnaeus | |
| M.Eng Szymon Bajda¹, Prof. Janusz Majta¹ Ainara Irastorza¹. Maxime Dupraz¹ 1/4GH University of Science and Technology, Krakow, Poland 1/2 Aghen Institute for Advanced Study in Computation Engineering Science (AICES), RMTH Aachen University 52072, Aachen, Germany, 'Institute of Mineral Engine Division of Materials Science and Engineering, Facult | | PROCESSED BY HIGH-STRAIN RATE COMPRESSION TEST | TOPOGRAPHY | A NEW GENERATION MULTI-PURPOSE TRANSMIS- SION ELECTRON MICROSCOPE: JEOL F2 | |
| 'AGH University of Science and Technology, Krakow, Poland 'Paul Scherrer Institut, CH-5232 Villigen, Switzerland Krakow, Poland 'Paul Scherrer Institut, CH-5232 Villigen, Switzerland Engineering Science (AICES), RWTH Aachen Universit 52072, Aachen, Germany, 'Institute of Mineral Engine Division of Materials Science and Technology, 'Paul Scherrer Institut, CH-5232 Villigen, Switzerland Engineering Science and Technology, 'Paul Scherrer Institut, CH-5232 Villigen, Switzerland Engineering Science and Technology, 'Paul Scherrer Institut, CH-5232 Villigen, Switzerland Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science and Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH Aachen University Engineering Science (AICES), RWTH AAChen University Engineering Science (AICES), RWTH AAChen Un | 47.70 | | | G. Brunetti | Mr. Sheng-Ying Yue ¹ , Prof. Ming Hu ¹ , ² |
| Georesources and Materials Engineering, RWTH Aac. University, 52072, Aachen, Germany | 16.40 | | Paul Scherrer Institut, CH-5232 Villigen, Switzerland | | Aachen Institute for Advanced Study in Computational Engineering Science (AICES), RWTH Aachen University, 52072. Aachen. Germany, *Institute of Mineral Engineering, Division of Materials Science and Engineering, Faculty of Georesources and Materials Engineering, RWTH Aachen University, 52072. Aachen, Germany |

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| Symposium | D4 | D8 | D9 | D10 |
|---------------|--|---|--|---|
| Room | Library Hall/M2 | I -16/M1 | Maurice Saltiel Hall I/M2 | CR II Hall/M2 |
| Session Title | Session 8 - Micro/nano-mechanics of damage II | Defects and solutes in iron alloys | Advanced Modelling of Nuclear Structural Materials (III) | Deformation |
| Chairperson | Cem Tasan, Christophe Pinna | Joerg Neugenbauer | N. Castin | Ebrahimi-Agoras |
| | HIGHLIGHT 'QUASI' IN-SITU INVESTIGATION OF COMPLEX-PATH DEFORMATION MICRO-MECHANISMS IN STEELS | Fe-N AND Fe-C SYSTEMS; COMBINING INSIGHTS From experiment and DFT Calculations | NANOINDENTATION STRESS-STRAIN CHAR- ACTERISATION OF P91 STEELS AT ELEVATED TEMPERATURES | HIGHLIGHT MULTISCALE 3D SIMULATIONS OF DEFORMATIONS OF MICRO-SHAFTS USING CONTINUUM DISLOCA- TION DYNAMICS |
| 15.00 | Cem Tasan ¹ , Emeric Plancher ¹ , Niels Vonk ¹ | <u>Prof. Dr. Andreas Leineweber</u> ¹ , Dr. Sascha Maisel ² , Dr. Shun-Li Shang ³ , Prof. Dr. Zi–Kui Liu ³ | Ana Ruiz Moreno ¹ , Marcello Conte ² , Vendulka Haib- likova ² , Nicholas Randall ² , Peter Haehner ¹ | Alireza Ebrahimi ^{1,2} Prof. DrIng. Thomas Hochrainer ^{1,2} |
| | ¹ MIT. Cambridge, USA | Institute of Materials Science, TU Bergakademie Freiberg, Freiberg, Germany, 'Max-Planck Institut für Eisenforschung 6mbH. Düsseldorf, Germany, 'Department of Materials Science and Engineering, The Pennsylvania State University, University Park, USA | "European Commission. Joint Research Centre. Petten, The Netherlands, "Anton Paar TriTec, Peseux, Switzerland | 'University of Bremen, Bremen, Germany, 'MAPEX Center for Materials and Processes, Bremen, Germany |
| | MECHANICAL PROPERTIES CHARACTERIZATION OF IRRADIATED NUCLEAR FUEL MATERIAL MODEL AT A LOCAL SCALE | A DENSITY-FUNCTIONAL THEORY INVESTIGATION OF γ-Fe4N, α"-Fe16N2 AND ε-FE3N1+y PRECIPITATES IN AN Fe-N SOLID SOLUTION | POSITRON PROBING OF RADIATION-INDUCED SWELLING IN NUCLEAR MATERIALS | ATOMISTIC SIMULATIONS AT REDUCED STRAIN RATES OF DISLOCATION INTERACTIONS IN NANO- CRYSTALLINE AL |
| 15.20 | Ronan Henry', Isabelle Zacharie-Aubrun ² , Jean-Marie Gatt ² , Cyril Langlois ¹ , Sylvain Meille ¹ | Sam De Waele ¹² , Kurt Lejaeghere ¹ , Lode Duprez ³ , Roger Hubert ³ , Elke Leunis ³ , Stefaan Cottenier ¹² | Dr. Vladimir Krsjak ¹ , Dr. Yong Dai ¹ , Dr. Jan Kuriplach ² , Prof. Vladimir Slugen ¹ | <u>Dr. Dupraz Maxime</u> ¹ , Dr. Zhen Sun ^{1,2} , Dr. Christian Brandl ² , Pr. Dr. Helena Van Swygenhoven ^{1,2} |
| | 'INSA-Lyon, MATEIS CNRS UMR 5510, Villeurbanne, France, °CEA, DEN, DEC, Cadarache, Saint-Paul lez Durance, France | Center for Molecular Modeling, Ghent University, 9052 Zwijnaarde, Belgium, 'Department of Electrical Energy, Metals, Mechanical Construction and Systems, Ghent University, 9052 Zwijnaarde, Belgium, 'Ocas NV, 9060 Zelzate, Belgium | Paul Scherrer Institute, Villigen, Switzerland. ² Charles University, Prague, Czech Republik. ² Slovak University of Technology, Bratislava, Slovakia | Paul Scherrer Institut, Villigen, Switzerland, ² NXMM laboratory IMX École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, 'Institut for Applied Materials, Kartsruhe Institute of Technology, Eggenstein Leopoldshafen, Germany |
| | SETUP OF A MICROSCALE HIGH TEMPERATURE LOADING RIG FOR MICRO-FRACTURE MECHANICS | INTERPLAY BETWEEN MAGNETIC AND ENERGETIC PROPERTIES IN Fe-Co and Fe-Mn alloys from First Principles | COMPARISON OF IN-SITU AND BULK ION IRRADI- ATION INDUCED MICROSTRUCTURE EVOLUTION IN FERRITIC/MARTENSITIC STEEL HT9 | CONSTITUTIVE MODELS FOR THE MACROSCOPIC RESPONSE AND FIELD STATISTICS IN ELASTO- VISCOPLASTIC COMPOSITES |
| 15.40 | Mr. Viswanadh Gowtham Arigela ¹ , Dr. Christoph Kirchlechner ¹ , Prof. Dr. Gerhard Dehm ¹ | <u>Anton Schneider</u> ', Dr Chu Chun Fu¹, Dr Frédéric Soisson¹, Dr Cyrille Barreteau² | Djamel Kaoumi [†] , Ce Zheng [†] | Dr. Michalis Agoras¹ |
| | ^I Max-planck-institut Für Eisenforschung GmbH, Düsseldorf, Germany | [†] DEN-Service de Recherches de Métallurgie Physique, CEA, Université Paris-Saclay, Gif sur Yvette, France, ² SPEC, CEA, CNRS, Université Paris-Saclay, Gif sur Yvette, France | 'North Carolina State University, Raleigh, United States | ¹ University of Thessaly. Volos. Greece |
| | TOUGHNESS OF DISSIMILAR WELD JOINS USING IN SITU MICROCANTILEVER TESTS | MULTI-SCALE APPROACH TO DESIGN RADIATION RESISTANT ALLOYS: APPLICATION TO ALPHA-Fe | KEYNOTE/INVITED EFFECTS OF ION IRRADIATIONS ON THE MICRO-STRUCTURE OF AUSTENITIC STAINLESS STEELS: EXPERIMENTS AND MODELING | PARAMETRIC EVALUATION OF MECHANICAL, THERMAL AND ELECTRICAL PROPERTIES OF CNT/ POLYMER MULTIFUNCTIONAL NANOCOMPOSITES USING NUMERICAL AND ANALYTICAL MODELS |
| 16.00 | Dan Sorensen¹,², Jesse Pischlar¹, Bernie Li², Joseph Stevick², Eric Hintsala¹, Daniel Kiener⁵, Prof. Antonio Ramirez², <u>Douglas Stauffe</u> r⁴ | Dr. Thomas Schuler L. Messina, P. Olsson, M. Nastar | | <u>Prof. Konstantinos Tserpes</u> ¹, Mr. Vasilis Tzatzadakis¹ |
| | ¹ Medtronic, PLC, Minneapolis, USA, ² Ohio State University, Columbus, USA, ³ Liquidmetal Technologies, Rancho Santa Margarita, USA, ⁴ Bruker, Eden Prairie, USA, ⁵ Montan Universitat - Leoben, Leoben, Austria | lÉcole Nationale Supérieure des Mines de Saint-Etienne, 42023 Saint Etienne, France | Bertrand Michaut ² , <u>Dr Thomas Jourdan</u> ¹ , Dr Joël Malaplate ² , Dr Alexandra Renault ² , Dr Faiza Setta ³ , Dr Brigitte Décamps ⁴ | 'University Of Patras, Patras, Greece |
| | NANOFATIGUE INVESTIGATIONS ON HIERARCHICALLY STRUCTURED ZIRCONIA CERAMICS | | | RECENT ADVANCEMENTS IN CORRELATIVE MICROSCOPY FOR MULTI-SCALE MATERIALS SCIENCE |
| 16.20 | MSc Cecilia Mueller ¹ , DrIng, Anke Maerten ¹ , Prof. (UH) Dr. rer. nat. Wolf-Dieter Mueller ² , <u>Prof. DrIng.</u> <u>Claudia Fleck¹</u> | | DEN-Service de Recherches de Métallurgie Physique, CEA, Université Paris-Saclay, Gif-sur-Yvette, France, DEN-Service de Recherches Métallurgiques Appli-quées, CEA, Université Paris-Saclay, Gif-sur- Yvette, France, *EDF R&D, MMC, Moret-sur-Loing, France, *CSNSM, CNRS-IN2P3-Univ. Paris-Sud 11, Orsay, France | Jeff Gelb'. Dr. Leah Lavery', Luke Hunter'. Dr. Lars-Oliver Kaulschor ² , Dr. Arno Merkle ¹ |
| | Institute Of Technology Berlin, Berlin, Germany, ² Charité - Universititätsmedizin Berlin, Berlin, Germany | | | 'Carl Zeiss Microscopy, Pleasanton, United States, ² Carl Zeiss Microscopy, Oberkochen, Germany |
| | WHAT GOVERNS PLASTICITY AND DAMAGE OF LATH MARTENSITE IN STEELS? | | RADIATION INDUCED MICROSTRUCTURAL EVOLUTION IN AUSTENITIC STAINLESS STEELS | MOLECULAR DYNAMICS SIMULATION OF SHEAR DEFORMATION AND PRECIPITATION STRENGTNNING AT BCC-Fe GRAIN BOUNDARIES |
| 16.40 | Dr. Francesco Maresca ¹ , Dr. Varvara Kouznetsova ² , Prof. Marc Geers ² , Prof. William Curtin ¹ | | Dr. Xinfu He¹ | Mr Kaoru Nakamura ¹ , Dr Tomohisa Kumagai ¹ , Dr Toshiharu Ohnuma ¹ |
| | ¹ Ecole Polytechnique Federale De Lausanne (EPFL), Lausanne, Switzerland, ² Eindhoven University of Technology (TU/e), Eindhoven, The Netherlands | | ¹ China Institute Of Atomic Energy, Beijing, China | ¹ Central Research Institute Of Electric Power Industry, Yokosuka, Japan |
| | | 1 | I | I |



| Symposium | E3 | E4 | F2 |
|---------------|---|---|--|
| Room | Rehearsal Room 5.17/M1 | Conference Room 2/M1 | 3-21/M1 |
| Session Title | Photovoltaics-New Materials II | Fuel cladding | Biomaterials for Therapeutic Delivery II |
| Chairperson | Euripides Hatzikraniotis | Dirk Engelberg | Miguel Manzano |
| | HIGHLIGHT CUPROUS OXIDE AS ABSORBER LAYER IN HETEROJUNCTION SOLAR CELLS | ULTRAFINE-GRAINED TYPE 316L-BASED OXIDE DISPERSION STRENGTHENED STEEL | MODULAR ULTRASOUND-RESPONSIVE NANOPARTICLES FOR DRUG DELIVERY |
| 15.00 | Prof B.G. Svensson ¹ , Dr K. Bergum ¹ , MSc H.N. Riise ¹ , Dr R. Kumar ¹ , Dr A. Galeckas ¹ , Dr S. Gorantla ¹ , Prof A.E. Gunnæs ¹ , MSc P.F. Lindberg ¹ , MSc J. Gan ¹ , MSc M. Nyborg ¹ , MSc J. M. Bentsen ¹ , Prof E.V. Monakhov ¹ , Dr I.J.T. Jensen ² , Dr, Prof O.M. Løvvik ^{2,1} , Dr, Prof S. Diplas ² | <u>Dr. Jinsung Janq'</u> , Dr. Xiaodong Mao ² , Dr. Suk Hoon Kang ¹ , Dr. Tae Kyu Kim ¹ | Juan L. Paris 12, M. Victoria Cabañas 1, Miguel Manzano 12, María Vallet-Regi 12 |
| | ¹ University of Oslo, Physics Department, SMN, Oslo, Norway, ² SINTEF Materials and Chemistry, Oslo, Norway | ¹ Korea Atomic Energy Research Institute, Daejeon, South Korea, ² Institute of Nuclear Energy Safety Technology, CAS, Hefei, China | ¹Dpto. Química Inorgánica y Bioinorgánica, Facultad de Farmacia, UCM, Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12., Madrid, Spain, ²Centro de Investigación Biomédica en Red de Bioingenieria, Biomateriales y Nanomedicina (CIBER-BBN), Spain |
| | STRUCTURAL CHARACTERISATION OF (Ag1-xCux)2ZnSnSe4 By Neutron diffraction | IRRADIATION BEHAVIOUR OF HIGH-ENTROPY ALLOY THIN FILMS FOR COATING NUCLEAR FUEL CLADDINGS | DESIGN AND MANUFACTURE OF ENGINEERED MULTIFUNCTIONAL STRUCTURES FOR THE BENIGN BIOACTIVATION OF CYTOTOXIC AGENTS FOR HIGHLY LOCALIZED CANCER TREATMENT |
| 15.20 | Galina Gurieva ¹ , Alexandra Franz ¹ , Susan Schorr ^{1,2} | BSc MSc Matheus A. Tunes ¹ , <u>BSc MSc PhD Vladmir Vishnyakov</u> ¹ , MPhys PhD Jonathan A. Hinks ¹ , BSc MSc PhD Stephen E. Donnelly ¹ | Mr. Mohammad Alqahtani ¹ , Dr. Carmen Torres-Sánchez ¹ , Dr Asier Unciti-Broceta ² , Dr. Ana Perez-López ² |
| | 'Helmholtz-Zentrum Berlin, Berlin, Germany, ² Freie Universitat Berlin, Berlin, Germany | 'School of Computing and Engineering, University of Huddersfield, Huddersfield, United Kingdom | 'Loughborough University, Loughborough, United Kingdom, 'The University of Edinburgh, Edinburgh, United Kingdom |
| | ASSESSMENT OF ELEMENTAL DISTRIBUTIONS AT LINE AND PLANAR DEFECTS IN Cu(In,Ga)Se ² THIN FILMS BY ATOM PROBE TOMOGRAPHY | THE EFFECT OF DIFFERENT THERMO-MECHANICAL STATES ON THE DISSOLUTION BEHAVIOUR OF 15-15TI FUEL CLADDING TUBES IN CONTACT WITH STATIC LBE | SMART MATERIAL BASED ON TRANSPORT NANOPARTICLES WITH TRIGGER EFFECT OF MAGNETIC DECAPSULATION FOR TARGET DRUG DELIVERY |
| 15.40 | Dr. Oana Cojocaru Miredin ¹² , Dr. Torsten Schwarz ² , Dr. Daniel Abou-Ras ³ | Evangelia Charalampopoulou ¹² , Dr. Rémi Delville ¹ , Dr. Konstantina Lambrinou ¹ , Niels Cautaerts ¹² , Prof. Dominique Schryvers ² | Dr Elena Zemtsova ¹ , Dr Maxim Shevtsov ² , <u>PhD student Alexsandra</u> <u>Ponomareva</u> ¹ , PhD Andreii Arbenin ¹ , Prof. Vladimir Smirnov ¹ |
| | ¹Rwth Aachen University, Aachen, Germany, ²Max-Planck Institut für Eisenforschung GmbH, Düsseldorf, Germany, ²Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany | ¹ SCK-CEN, Mol. Belgium, ² Antwerpen Universiteit, Antwerp, Belgium | 'Saint Petersburg State University, Saint Petersburg, Russia. 'Institute of Cytology of the Russian Academy of Sciences, Saint Petersburg, Russia |
| | THE EFFECT OF SULFURIZATION ON CO-EVAPORATED Cu2ZnSnSe4 THIN FILM SOLAR CELLS | OXIDE NANOCERAMIC COATINGS FOR LEAD-COOLED FAST REACTORS | FOREFRONT OF ADVANCED DESIGN OF CARBON NANOCAPSULES FOR CANCER THERAPY AND BIOIMAGING |
| 16.00 | <u>Dr Raquel Caballero</u> ¹ , Dr Yudania Sánchez ² , Dr Florian Oliva ² , Dr Victor İzquierdo ² , Dr Marcel Placidi ² , Dr José Manuel Merino ¹ , Prof. Dr. Máximo León ¹ | Dr. Francisco Garcia Ferre ¹ , Dr. Alexander Mairov ² , <u>Mr. Matteo Vanazzi</u> , Mr. Serena Bassini ² , Dr. Mariano Tarantino ² , Dr. Pietro Agostini ² , Dr. Luca Ceseracciu ⁴ , Dr. Yves Serruys ² , Dr. Frédéric Lepretre ⁸ , Dr. Lucile Beck ² , Dr. Kumar Sridharan ² , Dr. Fabio Di Fonzo ¹ | <u>Dr Gil Gonçalves</u> ¹ , Dr Stefania Sandoval ¹ , Dr Gerard Tobias ¹ |
| | 'Universidad Autónoma de Madrid, Madrid, Spain, ² IREC, Catalonia Institute for Energy Research, Barcelona, Śpain | 'Center for Nano Science and Technology @PoliMi. Istituto Italiano di Tecnologia, Milano, Italy, 'Department of Engineering Physics, University of Wisconsin-Madison, Madison, USA, 'ENEA-FSN-ING Division, C.R. Brasimone, Camugnano, Italy, 'Smart Materials, Nanophysics, Istituto Italiano di Tecnologia, Genova, Italy, 'Service de Recherches de Métallurgie Physique, Laboratoire JANNUS, CEA, DEN, F-9 ^{ng} Gif-Sur-Yvette, France | 'Institut de Ciència de Materials de Barcelona, Barcelona/Bellaterra, Spain |
| | ELECTRICAL CONDUCTIVITY OF Cu2ZnSn(S1-xSex)4 (X = 0.5 – 1.0) SOLID SOLUTIONS: INFLUENCE OF ORDER PARAMETER | RELATIONSHIP BETWEEN MICROSTRUCTURE AND MECHANICAL PROPERTIES OF HEAT TREATED 15-15TI AUSTENITIC STAINLESS STEEL FOR NUCLEAR FUEL CLADDING APPLICATION | NANOEMULSION-BASED CHITOSAN NANOCAPSULES AS ANTIBIOTIC DELIVERY SYSTEM |
| 16.20 | Galina Gurieva¹, Maxim Guc², Elena Hajdeu-Chicarosh², Daniel M. Többens¹, Ernest Arushanov², Susan Schorr¹,3 | Niels Cautaerts ¹² , Dr. Remi Delville ¹ , Dr. Erich Stergar ¹ , Prof. Dominique Schryvers ² , Dr. Marc Verwerft ¹ | I <u>nés Serrano-Sevilla</u> ¹, Sonia García-Embid¹, Laura De Matteis²³, Ainhoa Lucía⁴⁵s, José Antonio Ainsa⁴⁵s^², Jesús M. de la Fuente¹³ |
| | "Helmholtz-Zentrum Berlin, Berlin, Germany, "Institute of Applied Physics, Academy of Sciences of Moldova, Chisinau, Republic of Moldova, "Freie Universitat Berlin, Berlin, Germany | 'Sck-cen, Mol. Belgium, ² University of Antwerp. Antwerp. Belgium | Instituto de Ciencia de Materiales de Aragón (ICMA), Universidad de Zaragoza-CSIC, Zaragoza, Spain, Instituto de Nanociencia de Aragón (IMA), Universidad de Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, Zaragoza, Spain, CIBER de Enfermedades Respiratorias (CIBERES), Instituto de Salud Cartos III, "Departamento de Microbiologia, Facultad de Medicina, Universidad de Zaragoza, Zaragoza, Spain, Instituto de Investigación Sanitaria de Aragón (IS-Aragón), Zaragoza, Spain, Instituto de Diccomputación y Fisica de Sistemas Complejos, BIFI, Universidad de Zaragoza, Zaragoza, Spain, Instituto de Investigación Sanitaria de Aragón (IS-Aragón), Zaragoza, Spain, Instituto de Diccomputación y Fisica de Sistemas Complejos, BIFI, Universidad de Zaragoza, Zaragoza, Spain |
| | BORON SOLID SOLUTION IN ³ C-SiC FOR INTERMEDIATE-BAND SOLAR CELLS | | CHARGE CONVERSION NANOCARRIERS BASED ON AMPHIPHILIC POLYPEPTIDES |
| 16.40 | Dr. Patricia Carvalho', Dr. Annett Thøgersen', Dr. Quanbao Ma², Dr. Augustinas Galeckas², Dr. Alexander Azarov², Dr. Daniel Wright', Dr. Spyros Diplas', Dr. Valdas Jokubavicius³, Dr. Jianwu Sun³, Dr. Mikael Syväjärvi³, Dr. Bengt Svensson², Dr. Ole Martin Lovikk¹,² | | Héctor Soria ² , Arantxa Agote ² , Dr P ilar Romero ² , Dr Jesús M. de la Fuente ^{2,2} , Dr Rafael Martín-Rapún ¹ |
| | "SINTEF MK, Oslo, Norway, *University of Oslo, Department of Physics, Centre for Materials Science and Nanotechnology, Oslo, Norway, *Linköping University, Department of Physics, Chemistry and Biology, Linköping, Sweden | | 'Fundación Instituto de Nanociencia de Aragón, Universidad de Zaragoza, Zaragoza, Spain, ³Instituto de Ciencia de Materiales de Aragón, Universidad de Zaragoza / CSIC, Zaragoza, Spain, °Centro de Investi- gación Biomédica en Red en Bioingenieria, Biomateriales y Nanomedicina (CIBER-BBN), Madrid, Spain |

EUROMAT2017 10<u>5</u>



| Symposium | A2 | A5 | A7 | B1 |
|---------------|--|--|--|---|
| Room | I-11/M1 | M0YSA Hall/M2 | I-08/M1 | Conference Room 3/M1 |
| Session Title | Nanomagnetism & Properties | Self-assembly | Carbon based materials II and Catalysis | Bainitic Steels II |
| Chairperson | I. Galanakis | Kevin Ryan | Ana Cremades | Mark Rainforth |
| | HIGHLIGHT NANOLAMINATED MAX PHASE MAGNETS | HIGHLIGHT SELF-ASSEMBLY OF BRANCHED NANOCRYSTALS: A CLOSER VIEW ON THE ROLES OF THEIR GEOMETRY AND OF LIGAND DISTRIBUTION | KEYNOTE/INVITED FUNCTIONAL TITANIA FOR IMPROVED AIR AND HEALTH QUALITY | HIGHLIGHT AUSFORMING: CHALLENGES AND DEVELOPMENTS FOR NANOSTRUCTURED BAINITE |
| 17.30 | Dr. Ulf Wiedwald ¹ , Dr. Ruslan Salikhov ¹ , Quanzheng Tao ² , Dr. Arni S. Ingason ² , Dr. Dieter Weller ¹ , Prof. Johanna Rosén ² , Prof. Michael Farle ² , ³ | Andrea Castelli ¹ , Dr. Joost de Graaf ² , Prof. Liberato Manna ¹ , <u>Dr. Milena P. Arciniegas¹</u> | | Dr. Carlos Garcia-Mateo¹, Dr. Mahesh Somani², Prof. David A. Porter², Dr. Georg Paul³, Dr. Andreas Latz², Ms Adriana Eres-Castellanos¹, Dr. Francisca G. Caballero¹ |
| | ¹ Faculty of Physics and Center for Nanointegration (CENDE). University of Duisburg-Essen. Duisburg. Germany. ² Thin Film Physics, Department of Physics. Chemistry and Biology (IFM). Linköping University. Linköping, Sweden. ² Center for Functionalized Magnetic Materials (Fundayla). Immanuel Kant Baltic Federal University (IKBFU). Kaliningrad, Russia | ¹ Istituto Italiano di Tecnologia, Genoa, Italy, ² Institute for Computational Physics (ICP), University of Stuttgart, Stuttgart, Germany | Dr. Vassilis Binas¹ | ¹ CENIM-CSIC, Madrid, Spain, ² University of Oulu, Oulu, Finland, ³ Thyssenkrupp Steel Europe, Duisburg, Germany, ⁴ ArcelorMittal Global R&D, Ghent, Belgium |
| | HIGHLIGHT OPTIMIZING THE EXCHANGE BIAS PROPERTIES OF BI-MAGNETIC NANOPARTICLES WITH CORE/SHELL MORPHOLOGY | FORMATION OF COLLOIDAL COPPER INDIUM Sulfide Nanosheets by Two-Dimensional Self-Organization | . ¹ Forth, Heraklian, Crete, Greece | CHARACTERISATION OF ISOTHERMALLY FORMED BAINITE MICROSTRUCTURES IN 51C+V4 SPRING STEEL |
| 17.50 | <u>Dr Kalliopi Trohidou</u> ¹, Dr Marianna Vasilakaki¹ | Anne Berends ¹ , Hans Meeldijk ¹ , Celso de Mello Donega ¹ | TOTAL, TOTAL | Ir. Constantinos Goulas ¹² , Ir. Ankit Kumar ¹³ , Dr. Maria Giuseppina Mecozzi ¹ , Dr. Michael Herbig ³ , Prof.dr.ir. Jilt Sietsma ¹ |
| | ¹ Institute of Nanoscience and Nanotechnology, NCSR 'Demokritos', Athens, Greece | ¹ Utrecht University, Utrecht, Netherlands | | ¹ Delft University of Technology, Delft, Netherlands, ² Materials innovation institute (M2t), Delft, Netherlands, ³ Max-Planck-Institut für Eisenforschung, Dusseldorf, Germany |
| | HIGHLIGHT IMPROVED PERFORMANCE OF ASSEMBLIES OF MAGNETIC NANOCRYSTALS FOR HEAT DELIVERY AND MAGNETIC GUIDANCE APPLICATIONS | SOLVENT POLARITY DRIVEN VARIED INTERACTION BETWEEN LONG CHAIN ALIPHATIC THIOLS AND FLUORESCENT ASSEMBLY | DIFFERENCES IN THE YIELD OF CARBON NANO- TUBES USING TRANSITION METAL CATALYSTS | INFLUENCE OF CARBIDE ON THE MICROSTRUCTURE FORMATION AND PHASE TRANSFORMATION OF NANO-BAINTE IN BEARING STEEL |
| 18.10 | <u>Dr Veronica Salgueiriño</u> ¹ | Ms Jayasmita Jana¹ | <u>Dr. Rama Balasubramanian</u> ¹, Mr Brian Ruane | Dr. Zhinan Yang ¹ , Prof. Fucheng Zhang ¹ , Dr. Yanhui Wang ¹ , Dr. Mingming Wang ¹ |
| | ¹ Departamento de Física Aplicada, Universidade De Vigo, Vigo, Spain | ¹Indian Institute of Technology Kharagpur, Kharagpur, India | 'Roanoke College, Salem, USA | ¹Yanshan University, Qinhuangdao, China |
| | HIGHLIGHT MAGNETIC NANOPARTICLES UNDER AC FIELDS - BROWNIAN CONTRIBUTION TO HEAT DISSIPATION | ASSEMBLY OF SULFIDE-BASED NANOPARTICLES INTO GELS AND AEROGELS | CONTROL OVER THE CONDUCTIVITY OF TRANSPARENT MXENES | INFLUENCE OF TEMPERING CYCLE ON MICROSTRUCTURE EVOLUTION DURING TEMPERING OF HIGH STRENGTH STEELS |
| 18.30 | David Serantes ^{1,2} , Roy Chantrell ¹ , Daniel Baldomir ² , Akira Satoh ³ | Taisiia Berestok ^{1,2} , Dr. Pablo Guardia ^{1,4} , Dr. Michaela Meyns ³ , Javier Blanko ² , Lluis López-Conesa ² , Dr. Sonia Estrade ² , Prof. Stephanie L. Brock ³ , Prof. Francesca Peiro ² , Prof. Andreu Cabot ^{1,5} | Dr. Florian M. Römer', Dr. Ulf Wiedwald', Tanja Strusch', Dr. Joseph Halim², Elisa Mayerberger², Prof. Dr. Michel Barsoum², Prof. Dr. Michael Farle¹ | <u>Seyyed Hesamodin Talebi</u> ¹, Hadi Ghasemi Nanesa¹, Professor Mohammad Jahazi¹ |
| | 'Department of Physics, University of York, York, United Kingdom, 'Instituto de Investigacións Tecnolóxicas and Applied Physics Department, Universidade de Santiago de Compostela, Santiago de Compostela, Spain, 'Faculty of System Science and Technology, Akita Prefecture University, Yuri-honjo, Japan | 'Catalonia Institute For Energy Research, Barce- lona, Spain, 'LENS, MIND-IN'-UB, Departament d'Electrionica, University of Barcelona, Spain, 'Department of Chemistry, Wayne State University, Detroit, USA, 'Centre Tecnològic de la Química de Catalunya, Tarragona, Spain, 'Institució Catalana de Recerca i Estudis Avançats - ICREA, Barcelona, Spain | 'Experimental Physics. AG Farle. University Duis- burg-Essen, Duisburg, Germany, 'Drexel University, Philadelphia, United States of America | 'École De Technologie Supériere, Montreal, Canada |
| | HIGHLIGHT DECIPHERING THE WORKINGS OF MAGNETIC NANOPARTICLES BY UNRAVELING THEIR INTRICATE LOCAL STRUCTURE | THREE-DIMENSIONAL METAMATERIALS MADE FROM ENGINEERED OLIGONUCLEOTIDES AND NANOPARTICLES | THE STRATEGIES OF BNO NANOPARTICLES SYNTHESIS FOR PROMISING CATALYSTS | EFFECT OF DIFFERENT HEAT TREATMENT PROCEDURES ON TOUGHNESS AND DUCTILITY OF NANOSTRUCTURED BAINITIC STEELS |
| | Mr George Antonaropoulos ¹² , Mr Konstantinos Brintakis ¹³ , Dr Emil Bozin ⁴ , Dr Milinda Abeykoon ⁵ , Dr Giovanni Ausanio ⁶ , Dr Vincenzo lannotti ⁶ , Dr Kalliopi Trohidou7, <u>Dr Alexandros Lappas</u> ¹ | Miss AF De Fazio¹, Dr Afaf H. El-Sagheer²³, Prof Tom Brown², Prof Otto Muskens¹, Dr Antonios Kanaras¹ | Dr. Andrey Kovalskii ¹ , Dr. Andrei Matveev ¹ , Dr. Irina Sukhorukova ¹ , Mr. Konstantin Firestein ¹ , Mr. Alexander Steinman ¹ , Dr. Oleg Lebedev ² , Prof. Dmitry Shtansky ¹ , Prof. Dmitri Golberg ³ | <u>Dr. Behzad Avishan</u> ¹ , Professor Sasan Yazdani ² , Maryam Kabirmohammadi ² |
| 18.50 | Institute of Electronic Structure and Laser, Foundation for Research and Technology - Hellas, Heraklion. Greece, ³ Department of Chemistry, University of Crete, Heraklion. Greece, ⁴ Department of Physics, Aristotle University of Thessoloniki, Thessoloniki, Greece, ⁴ Condensed Matter Physics and Matterial Science Department, Brookhaven National Laboratory, Upton, USA, ⁴ Photon Sciences Division, National Synchrotron Light source II. Brookhaven National Laboratory, Upton, USA, ⁵ Department of Physics, ⁵ E. Pancini, ⁶ E CRR-SPIN, University of Naples ⁷ Federica II. ⁷ Naples, Italy, ⁸ Institute of Nanoscience and Nanotechnology, NCSR, ⁷ Demokritos, ⁸ Aghia Paraskevi, Greece | ¹ Physics and Astronomy, University Of Southampton, Southampton, United Kingdom, ² Department of Chemistry, Chemistry Research Laboratory, University of Oxford, Oxford, United Kingdom, ² Chemistry Branch, Department of Science and Mathematics, Faculty of Petroleum and Mining Engineering, Suez, Egypt | 'National University Of Science And Technology 'MISiS', Moscow, Russian Federation, *CRISMAT, UNR 6508, CNRS-ENSICAEN, Caen, France, *National Institute for Materials Science, Tsukuba, Japan | [†] Department of Materials Engineering. Azarbaijan Shahid Madani University, Tabriz, Iran , ² Faculty of Materials Engineering. Sahand University of Technology, Tabriz, Iran |
| | CONTINUOUS MILLIFLUIDIC SYNTHESIS OF MONODISPERSE Fe/FexOy NPs | FABRICATION OF ISOLATED 3D PLASMONIC MICRO STRUCTURED SUPERCRYSTALS ARRAYS FOR SERS DETECTION | SYNTHESIS AND CHARACTERIZATION OF ZnO HIERARCHICAL NANOPARTICLES AND RE DOPED ZnO NANOPARTICLES WITH ENHANCED PHOTOCATALYTIC ACTIVITY (Re: Ce, Ru) | |
| | Dr Katerina Loizou ¹ , Dr Stephanos Mourdikoudis ² , Dr Alec LaGrow ² , Professor Nguyen Thanh ² , Professor Asterios Gavriilidis ¹ | <u>Dr. Nicolas Pazos Perez</u> ¹. Prof. Ramon Alvarez Puebla¹² | G. Flores-Carrasco¹², M. Rodríguez-Peña³, A. Urbieta³, Professor Paloma Fernández³, O. Milosevic⁴, <u>María Eugenia Rabanal</u> ¹ | |
| 19.10 | Department of Chemical Engineering, University College London, London, United Kingdom, *Biophysics Group, Department of Physics and Astronomy and UCL Healthcare and Biomagnetic and Nanomaterials Laboratories, University College London Laboratories, London, United Kingdom | Department Of Physical Chemistry And Inorganic, Universitat Rovin'd Virgili, Tarragona, Spain, 'Anstitucio Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Sapin | University Carlos III of Madrid and IAAB, Dept. of Materials Science and Engineering and Chemical Engineering, Avda. Universidad 30, 28911 Leganes, Madrid, Spain, Madrid, Spain, 2CIDS-ICLIAP Benemerita Universidad Autónma de Puebla, Av. San Claudio y 14 sur, Edif. 103C C.U., Col. San Manuel, Puebla 72570, México, Mexico, Departamento Fisica de Materiales, fac. Unicrosia Fisicas, Universidad Complutense, Ciudad Universitaria, 280540 Madrid, Spain, Madrid, Spain, *Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Knez Mihailova 35/IV, 11000 Belgrade, Serbia, Belgrade, Serbia | |



| Symposium | B2 | В3 | В7 | B8 |
|---------------|--|--|--|---|
| Room | Aimilios Riadis Hall/M2 | CR I Hall/M2 | CR III Hall/M2 | Conference Room 1/M1 |
| Session Title | Advanced Characerization Methods for Light Metals | Polycrystalline Ni Base Superalloys III | Structures, Processing, and Fabrication of MOF Composites | Phase Stability |
| Chairperson | Dymtro Orlov | P. Tsakiropoulos | Caroline Mellot-Draznieks | Sergiy Divinski |
| | HIGHLIGHT REVEALING THE MELTING AND SOLIDIFICATION BEHAVIOUR OF LIGHT METALS USING IN SITU SYNCHROTRON X-RAY IMAGING | STRAIN-INDUCED PRECIPITATION ANALYSIS OF DELTA-PROCESSING IN AN INCONEL 718 SUPERALLOY | HIGHLIGHT THE DEVELOPMENT OF A CSD SUBSET: A COLLECTION OF METAL-ORGANIC FRAMEWORKS FOR PAST, PRESENT AND FUTURE | FORMULATING HIGH ENTROPY ALLOYS: CRITERIA AND EXPERIMENTS FOR SELECTED APPLICATIONS |
| 17.30 | Professor Peter Lee ¹² , Dr Alex Leung ¹² , Dr Biao Cai ¹² , Dr Enyu Guo ¹² , Mr Sebastian Marussi ¹² , Dr Robert Atwood ² , 3 | Martha P Guerrero Mata¹, Pedro Paramo Kañetas², Jessica Calvo², Utkudeniz Ozturk², Jose Ma Cabrera² | Dr. Peyman Moghadam ¹ . Ms. Aurelia Li ¹ , Dr. Seth Wiggin ² . Mr Andi Tao ¹ , Dr. Andrew Maloney ² . Dr. Peter Wood ² , Dr. Suzanna Ward ² , Dr. David Fairen-Jimenez ¹ | Dr. Marco Gabriele Poletti ¹ , Dr. Gianluca Fiore ¹ , <u>Prof. Livio Battezzati¹</u> |
| | 'School of Materials. The University Of Manchester, Manchester, United Kingdom, 'Research Complex at Harwell, Harwell, United Kingdom, 'Diamond Light Source, Harwell, United Kingdom | ¹ Universidad Autonoma De Nuevo Leon, San Nicolas De Los Garza, Mexico, ² Universitat Politècnica de Catalunya, Barcelona, Spain | ¹ University of Cambridge, Cambridge, United Kingdom, ² Cambridge Crystallographic Data Centre (CCDC), Cambridge, United Kingdom | 'Università di Torino, Torino, Italy |
| | NANOPARTICLE RESTRICTED DENDRITIC EVOLUTION IN Mg-Zn-AI ALLOYS REVEALED BY SYNCHROTRON TOMOGRAPHY | STRESS SERRATIONS DURING TENSILE TESTS OF NICKEL BASED ALLOY X750: EFFECT OF VACUUM | NOVEL METAL ORGANIC FRAMEWORKS BASED ON TETRATOPIC LINKERS AND Zr(IV)/Hf (IV) METAL CLUSTERS WITH HIGH CONNECTIVITY | SHORT-RANGE ORDER IN HIGH-ENTROPY ALLOYS: THEORETICAL FORMULATION AND APPLICATION TO Mo-Nb-Ta-V-W SYSTEM |
| 17.50 | Dr. Enyu Guo¹², Dr. Sansan Shuai¹, Dr. Daniil Kazantsev¹², Dr. Biao Cai¹², Dr. Andre Phillion⁴, Dr. Tao Jing³, Dr. Peter Lee¹² | <u>Djamel Kaoumi</u> i, Christopher Marsh ² | Mrs Giasemi Angeli ¹ , Mrs Christina Sartsidou ¹ , Dr Constantinos Tsangarakis ¹ , Dr Pantelis Trikalitis ¹ | Mr Antonio Fernandez-Caballero 12, Dr Duc Nguy- en-Manh², Dr Jan Wrobel³, Prof Paul Mummery¹ |
| | "School of Materials, The University of Manchester, Manchester, United Kingdom, "Research Complex at Harwell, RAL, Didcot, United Kingdom, "School of Ma- terials Science and Engineering, Tsinghua University, Begling, China, "Department of Materials Science and Engineering, McMaster University, Hamilton, Canada | ¹ North Carolina State University, Raleigh, United States, ² University of South Carolina, columbia, United States | ¹ University Of Crete , Heraklion Crete, Greece | University of Manchester, Manchester, UK, ² Culham Centre Far Fusion Energy, Abingdon, UK, ³ Warsaw University of Technology, Warsaw, Poland |
| | IN SITU NANOTOMOGRAPHY INVESTIGATION OF HIGH TEMPERATURE DEFORMATION IN LIGHT ALLOYS | MECHANICAL PROPERTIES OF MIX JOINT TIG WELDED HASTELLOY X | HIGHLIGHT MOF-BASED BIFUNCTIONAL MATERIALS FOR COMBINED CO ₂ CAPTURE AND CONVERSION | ON THE COMPOSITIONAL ORIGINS OF SIGMA PHASE PRECIPITATION IN CTMNFECONI-TYPE HIGH ENTROPY ALLOYS |
| 18.10 | Ms. Richi Kumar ¹² , Dr. Julie Villanova ¹ , Dr. Pierre Lhuissier ² , Prof. Luc Salvo ² | Mr. Jonas Saarimäki ¹ , Mr. Mattias Lundberg ¹ , Mr. Moritz Döllgast ¹ , Professor Johan Moverare ¹ , Doctor Håkan Brodin ² | Mr Angus Crake ¹ . Dr Kostas Christoforidis ¹ . <u>Dr Camille Petit¹</u> | Dr. Katerina Christofidou', Thomas McAuliffe', Dr. Paul Mignanelu', Pietro Orsatti', Dr. Ed Pickering', Dr. Howard Stone', Dr. Nick Jones' |
| | European Synchrotron Radiation Facility, Grenoble, France, ² Univ. Grenoble Alpes, CNRS, SIMAP, Grenoble, France | ¹Linköping University, Linköping, Sweden,²Siemens Industrial Turbomachinery AB, Finspång, Sweden | [†] Imperial College London, United Kingdom | "University Of Cambridge. Department of Materials Science and Metallurgy, Cambridge. United Kingdom, ² The University of Manchester, School of Materials, Manchester, United Kingdom |
| | IN SITU NEUTRON DIFFRACTION OF STRAIN PATH CHANGE EFFECTS IN COLD-ROLLED MgAZ31B SHEET | SEGREGATION DYNAMICS OF P IN NI-BASED ALLOY DURING AGING AND COOLING: CRITICAL TIME AND CRITICAL COOLING RATE | TOWARDS FUNCTIONAL DEVICES VIA MOF@FIBRE NANOCOMPOSITES | ACCURATE ON-LATTICE MODEL FOR STABILITY EVALUATION OF HIGH-ENTROPY ALLOYS |
| 18.30 | Karl Sofinowski ¹² , Jan Čapek ³ , Dr. Tobias Panzner ¹ , Dr. Steven Van Petegem ¹ , Prof. Dr. Helena Van Swygenhoven ¹ 2 | <u>Jinsen Tian</u> ¹ , Dr Yu-Lung Chiu ¹ , Prof. Ian Jones ¹ | Mr Kirill Titov ¹ . Mr Abhijeet Chaudhari ¹ , Mr Mahdi Ezwan Mahmoud ¹ . Dr Chris Kelley ² . Dr Mark Frogley ² . Dr Gianfelice Cinque ² . Dr Jin-Chong Tan ¹ | Evgeny Meshkov ¹ , Ivan Novoselov ¹ , Alexander Shapeev ² , Alexey Yanilkin ¹ |
| | Paul Scherrer Institute, Villigen, Switzerland, ² École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, ² Charles University in Prague, Prague, Czech Republic | ¹ School of Metallurgy and Materials, University of Birmingham, Birmingham, United Kingdom | University Of Oxford, Oxford, United Kingdom, ² Diamond Light Source, Harwell. United Kingdom | "Dukhov Research Institute of Automatics (VNIIA), Moscow, Russian Federation, ² Skolkovo Institute of Science and Technology, Moscow, Russian Federation |
| | NEUTRON DIFFRACTION STUDY OF Mg-BASED COMPOSITES AT DIFFERENT TEMPERATURES | LONG TIME ANNEALING OF THE NICKEL-BASED SUPERALLOY WASPALOY | A HOT-PRESSING (HoP) STRATEGY FOR FABRICATION OF METAL-ORGANIC FRAMEWORK BASED DEVICES | AUXCOCFENI HIGH ENTROPY ALLOYS FOR STRUCTURAL APPLICATIONS |
| 18.50 | MSc. Gergety Farkas¹, Doc. Kristián Máthis², Ph.D. Ján Pilch¹, Ph.D. Peter Minárik², CSc. Petr Lukáš¹ | Konstantin Firlus ¹ , DrIng. Svenja Kinzel ^{1,2} , Johannes Gabel ³ , <u>Prof. DrIng. Uwe Glatzel</u> ¹ | <u>Doctoral student Yifa Chen</u> ¹, Prof Bo Wang¹ | Dr. Eng Mariana Lucaci ¹ , Dr. Eng Magdalena Lungu ¹ , Dr Phys Eugeniu Vasile ² , Dr. Phys Mihai Straticiuc ³ , Dr Phys Ion Burcea ³ , Dr. Eng Violeta Tsakiris ¹ , Dr. Eng Dorinel Talpeanu ¹ , ENG Nicolae Stancu ¹ , Dr. Eng Alexandru Iorga ¹ , Dr. Eng Eugen Manta ¹ , Dr. Eng Diana Cirstea ¹ |
| | ¹ Nuclear Physics Institute, V. V. I., Řež 250 68, Czech Republic, ² Department of Metal Physics, Charles University, Ke Karlovu 5, Prague 2, 121 16, Czechia | ¹ Metals and Alloys, Bayreuth, Germany, ² H-O-T Härte und Oberflächentechnik, Buttenheim, Germany, ³ MTU Aero Engines AG, Munich, Germany | ¹ Beijing Institute of Technology, Beijing, China | ¹ INCDIE ICPE-CA, Bucharest, Romania, ² University Politehnica of Bucharest, Bucharest, Romania, ³ IFIN - HH, Bucharest - Magurele, Romania |
| | | | | PHASE COMPOSITION, MICROSTRUCTURE AND THERMAL STABILITY OF THE MULTI-PHASE NI-V-Sn ALLOYS WITH NI 75-90 at % CONTENT |
| 19.10 | | | | Prof. PAS Tomasz Czeppe ¹ . Dr Anna Sypien ¹ . Dr Anna Wierzbicka-Miernik ¹ , Dr Grzegorz Garzel ¹ , Dr Anna Goral ¹ , Prof Lidia Litynska-Dobrzynska ¹ , MSc Katarzyna Janik ¹ , Dr Marek Kopyto ¹ |
| | | | | "Institute of Metallurgy And Materials Sciences Pas, Krakow, Poland |
| | | | I | |

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| Symposium | B10 | B11 | C1 | C4 |
|---------------|---|---|---|--|
| Room | Maurice Saltiel Hall II/M2 | Maurice Saltiel Hall III/M2 | Friends of Music Hall/M1 | Conference Room 4/M1 |
| Session Title | Corrosion & Wear III | Heat Treatment, Microstructure and Joining of Fe and Al-Alloys | C1.2: Coatings deposition routes and novel characterization techniques 3/5 Characterization | Testing, characterization and modeling for Additive Manufacturing 1 |
| Chairperson | Ruben Santos | M. Kynazeva | R. Cremer, G. Orhan | Richard Everett |
| | ELECTROSPUN NANOFIBERS FOR CORROSION PROTECTION OF METALLIC SURFACES | EVIDENCE OF GRANULARIZATION OF LATH-LIKE BAINITE DURING ISOTHERMAL HOLDING: HOW CHEMISTRY AND INITIAL MICROSTRUCTURE IMPACT THE GRANULARIZATION KINETICS | HIGHLIGHT NANOPARTICLE AND NANOCOMPOSITE FILMS WITH PLASMA POLYMERS | HIGH RESOLUTION X-RAY MICROSCOPY AND CT FOR ADDITIVE MANUFACTURING |
| | Dr. Ioana Carmen Vladu¹, Prof. Christoph Kleber¹ | Mile Meriem BEN HAJ SLAMA ¹²³ . Mme Nathalie GEY ²³ . Mr Lionel GERMAIN ²³ . Mme Kangying ZHU ⁵ . Mr Sébastien ALLAIN ¹³⁴ . | DrSc Hynek Biederman ¹ , PhD Ondrej Kylian ¹ , PhD Andrei Choukourov ¹ , <u>Dr. Artem Shelemin</u> ¹ | Mr. Luke Hunter ¹ , Dr. Leah Lucas Lavery ¹ , Lars-Oliver Kautschor ¹ |
| 17.30 | 'Centre of Electrochemical Surface Technology, Wiener Neustadt, Austria | Institut Jean Lamour UMR CNRS 7198 Université de Lorraine, Nancy, France, ² Laboratoire d'Etude des Micro- structures et de Mécanique des Matériaux (LEM3), UMR CNRS 7239, Université de Lorraine, 57045 Metz, France, ² Laboratory of Excellence on Design of Alloy Metals for low- mAss Structures (DAMAS), Université de Lorraine, Metz/ Nancy, France, ² Ecole des Mines de Nancy, Campus Artem - CS 14, 234, 54 042 Nancy Cedex, France, ³ ArcelorMittal Re- search Center Mazières Research SA, Metz/ Viole Romaine, BP30320, 57283 Maizières-lès-Metz Cedex, France | ¹ Charles University, Faculty of Mathematics and Physics, Department of Macromolecular Physics, V Holešovičkách ² , Prague, Czech Republic | [†] Carl Zeiss Microscopy, Pleasanton, United States |
| | MICROSTRUCTURE EVOLUTION AND GALLING PROP- ERTIES OF HARD FACING COATINGS DEPOSITED USING LASER DIRECTED ENERGY DEPOSITION | MONTE CARLO SIMULATION OF PRIMARY RECRYS- TALLIZATION IN AN IF STEEL | CORE-SHELL NANOPARTICLES ARISING FROM PLASMA POLYMERIZATION | IN OPERANDO X-RAY IMAGING OF LASER-POWDER INTERACTION MECHANISMS DURING ADDITIVE MANUFACTURING |
| 17.50 | <u>Dr Niyanth Sridharan</u> ¹, Dr Ryan Dehoff¹, Brian Jordan¹, Prof Sudarsanam Babu¹² | Meriem RAMOUL ¹ . Monte Carlo simulation of primary recrystallization in an IF steel Abdelhak AYAD ¹ . Monte Carlo simulation of primary recrystallization in an IF steel Nadjet ROUAG ¹ . Monte Carlo simulation of primary recrystallization in an IF steel Francis WAGNER ² | <u>Stella Mathioudaki</u> ¹ , Dr. Bastien Barthélémy ¹ , Prof. Stéphane Lucas ¹ | Mr Chu Lun Alex Leung ¹² , Mr Sebastian Marussi ¹² , Dr Robert A Atwood ⁴ , Professor Mike Towrie ²³ , Professor Philip J Withers ¹ , Professor Peter D Lee ¹² |
| | ¹ Oak Ridge National Laboratory, Oak Ridge, United States, ² University of Tennessee , Knoxville, united states | 'Laboratoire de microstructures et défauts dans les matériaux, Université Frères Mentouri Constantine I, Alegria. Constantine, Algeria. 'Département de phar- macie. Faculté de Médecine, Université Constantine 3. Nouvelle ville Ali Mendjeli. BP. 67A Constantine. Algeria. Constantine, Algeria. 'ILEM3, (CNRS-UMR 7239), Université de Lorraine, lle du Saulcy, 57045 Metz, France., Metz, France | ¹ Research Centre for Physics of Matter and Radiation (PMR-LARN), University of Namur, Rue de Bruxelles 61, Belgium | ¹ The University of Manchester, Manchester, United Kingdom, ² Research Complex at Harwell, Harwell, United Kingdom, ³ The Central Laser Facility, Harwell, United Kingdom, ⁴ Diamond Light Source, Harwell, United Kingdom |
| | SLIDING WEAR AND SOLID PARTICLE EROSION RESPONSE OF ALUMINIUM REINFORCED WITH TUNGSTEN CARBIDE NANOPARTICLES AND ALUMINIDE PARTICLES | STRAIN RATE SENSITIVITY OF BAINITIC STEELS: CORRELATION BETWEEN MICROSTRUCTURE AND MECHANICAL RESPONSE UNDER DYNAMIC LOADING CONDITIONS | PRODUCTION, CHARACTERIZATION, AND RESIDUAL STRAIN ANALYSIS OF THICK PLASMA SPRAYED TUNGSTEN COATINGS FOR NUCLEAR FUSION APPLICATIONS | MODELING OF GRAIN STRUCTURE EVOLUTION DURING METAL ADDITIVE MANUFACTURING |
| 18.10 | Dr. Konstantinos Lentzaris', Prof. ANGELIKI LEKATOU', Prof. Alexandros Karantzalis', Ms Ekaterini Hantziara', Mr Nicolaos Gkikas', Ms Vasiliki Gousia' | MSc Behnam Shakerifard¹, Dr. Jesus Galan Lopez², Prof. Patricia Verleysen³, Prof. Leo Kestens⁴ | Mr Edward Rowe ¹ , Dr David Armstrong ¹ , Professor Patrick Grant ¹ , Dr Elizabeth Surrey ² | Dr. Aleksandr Zinoviev ¹ , Dr. Olga Zinovieva ¹ , Prof. DrIng. Vasily Ploshikhin ¹ |
| | ¹ University Of loannina, loannina, Greece | Delft University of Technology, Delft, Netherlands, *Materials Innovation Institute, Delft, Netherlands, *Ghent University, Ghent, Belgium, *Ghent University, Ghent, Belgium | ¹ University Of Oxford, Oxford, United Kingdom, ² UKAEA, Culham Science Centre, Abingdon, United Kingdom | 'Airbus Endowed Chair for Integrative Simulation and Engineering of Materials and Processes (ISEMP), University of Bremen, Bremen, Germany |
| | EFFECT OF MAGNESIUM ON THE MICROSTRUC- TURE AND THE FUNDAMENTAL ABRASIVE WEAR BEHAVIOUR OF IRON ALUMINIDES | INFLUENCE OF HARMONIC STRUCTURE DESIGN ON BACK STRESS OF SUS304L STAINLESS STEEL UNDER UNLOAD-RELOAD CYCLE TESTS | NANO BEAM X-RAY DIFFRACTION ANALYSIS OF STRESS AND STRAIN IN HIGH-TEMPERATURE OXI- DATION RESISTANT MO-SI-B/TI-AI-N MULTILAYER COATINGS | EFFECT OF BUILD HEIGHT AND SCANNING STRATE- OF ON THE EVOLUTION OF THE RESIDUAL STRESSES IN NICKEL BASED SUPERALLOY INCONEL-738LC PRODUCED BY SELECTIVE LASER MELTING (SLM) |
| 18.30 | Harald Rojacz ¹ , Dr. Markus Varga ¹ , Dr. Ulrike Cihak-Bayr ¹ | Yuya Fujiki ¹ , Masashi Nakatani ¹ , Mie Ota ¹ , Yuntian Zhu ² , Kei Ameyama ¹ | DI Elias Aschauer ¹ , Dr. Matthias BArtosik ² , Dr. Peter Polcik ³ , Dr. Mirjam Arndt ⁴ , Dr. Helmut Riedl ^{1,2} , Prof. Paul Heinz Mayrhofer ^{1,2} | Avinash Hariharan ¹ , Jeroen Risse ² , Eric A. Jägle ¹ , Dierk Raabe ¹ |
| | 'AC2T research Gmbh, Wiener Neustadt, Austria | ¹ Ritsumeikan University, Kusatsu City, Japan, ² North Carolina State University, Raleigh, United States | ¹ TU Wien. CDL-AOS at the Insitute of Materials Science and Technology, Wien, Austria. ² TU Wien, Institute of Materials Science and Technology, Wien, Austria. ² Plansee Composite Materials GmbH, Lechbruck am See, Germany, ⁴ Oertikon Surface Solutions AG, Oerlikon Balzers, Balzers, Liechtenstein | Department of Microstructure Physics and Alloy Design, Max-Planck-Institut für Eisenforschung, Dus- seldorf, Germany, ² Fraunhofer-Institut für Lasertechnik ILT, Aachen, Germany |
| | EVALUATION OF THE TRIBOLOGICAL PERFORMANCE OF MOTANDZ/TI HIGH ENTROPY ALLOY | EFFECT OF SIZE, DISTRIBUTION AND NATURE OF NANOSCALE PARTICLES ON SLIP DISPERSION IN ALUMINIUM ALLOYS | TRIBIOLOGICAL BEHAVIOR OF TC4 ALLOY MODIFIED BY HIGH-FREQUENCY INDUCTION PASTE ALLOYING TECHNOLOGY | MODEL FOR SURFACE FINISHING IN SELECTIVE LASER MELTING |
| 18.50 | Dipl. Eng Anthoula Poulia ¹ , Dipl. Eng. Emmanuel Georgatis ¹ , Dipl. Eng. Christina Mathiou ¹ , Dr. Angela Lekatou ¹ , Dr. Alexander Karantzalis ¹ | Juliette Chevy¹, Belen Davo¹, Marc Fivel², Elena Jover Carrasco¹ | Feng Ding¹, Ping Ze Zhang¹, Dong Bo Wei¹, Xiang Fei Wei¹, Xiao Hu Chen¹ | Professor Ilaria Cristofolini ¹ . Professor Alberto Molinari ¹ |
| | ¹ University Of Ioannina, Ioannina, Greece | 'Constellium C-tec, Voreppe, France, 'SIMaP, Grenoble, France | 'Nanjing University Of Aeronautics And Astronautics, Nanjing, China | 'University Of Trento, Trento, Italy |
| | WEAR PERFORMANCE OF EPOXY RESINS: INFLUENCE OF CARBON REINFORCING PHASES | MICROSTRUCTURAL INVESTIGATIONS OF VACUUM BRAZED ALUMINUM-STEEL-JOINTS | PRODUCTION OF CARBON COATED AL-FOAMS AND EVALUATION OF THEIR MECHANICAL BEHAVIOUR | PREDICTION OF MECHANICAL PROPERTIES OF OPEN LATTICE CELLULAR MATERIALS BY SELECTIVE LASER MELTING PROCESS SIMULATION |
| 19.10 | PhD candidate Dimitrios Baltzis', Undergraduate student Angelos Daflos'. Professor Aggeliki Lekatou'. Professor Alkiviadis Paipetis' | Prof. DrIng. Dipl.WirtIng. Wolfgang Tillmann ¹ , <u>Lukas Wojarski</u> | <u>Dr. Fani Stergioudi</u> ", Prof Nikolaos Michailidis ¹ | Professor Georgios Lampeas¹. Dr. Ioannis Diamantakos¹ |
| | 'Composite and Smart Materials Laboratory, Depart- ment of Materials Engineering, University of Ioannina, Ioannina, Greece, 'Applied Metallurgy Laboratory, Department of Materials Engineering, University of Ioannina, Ioannina, Greece | ¹ TU Dortmund University - Institute Of Materials Engineering, Dortmund, Germany | ¹ Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece | 'University of Patras, Patras, Greece |



| Symposium | C10 | D1 | D2 | D3 |
|---------------|--|--|--|---|
| Room | F 319/M1 | Artist Café/M1 | Museum Hall /M2 | I-15/M1 |
| Session Title | Surface nanocrystallization, graded microstructure, multi-layered and composites by SPD | Spectroscopies-II | Nanostructures, nanomaterials and low dimensional systems II | Structural and mechanical properties I |
| Chairperson | S. Zherebtzov and H. Miura | Andrea Di Cicco, Eric Collet | Thomas Kehagias | Ilias Zoumboulis |
| | STRESS-ASSISTED AND STRAIN-INDUCED MARTEN- SITES FORMED BY CRYOGENIC ULTRASONIC SHOT PEENING IN AUSTENTIC STAINLESS STEELS AND BETA-METASTABLE TI ALLOYS | HIGHLIGHT SPECTROSCOPIC STUDIES OF ADVANCED MATERIALS WITH NANOBEAMS | A NEW TEMPLATE FREE STRATEGY TO FABRICATE NANOREACTORS WITH INTERNAL POROSITY AND ITS IMPACT ON THE MATERIAL PROPERTIES | RESPONSE OF AM STAINLESS STEEL TO HIGH STRAIN RATE LOADING |
| 17.30 | Pr Thierry Grosdidier ¹ , Dr Marc Novelli ¹ , Mr Pierre Maurel ¹ , Dr Laurent Weiss ¹ , Pr Philippe Bocher ² | Dr Gema Martinez-criado¹ | Dr Monica Distaso¹ | Mr Matthew Cotton Dr Paul Hooper ² |
| | 'University Of Lorraine - Labex Damas, Metz, France, 'Ecole de Technologie Supérieure de Montréal, Montréal, Canada | ¹ICMM-CSIC, Cantoblanco, España | 'Fau Erlangen Nuremberg, Erlangen, Germany | 'Awe, Aldermaston, Reading, UK, 'Department of Mechanical Engineering, Imperial College London, London, UK |
| | HIGHLIGHT EFFECT OF WARM MULTIAXIAL FORGING ON STRUCTURE AND PROPERTIES OF TI/TIB METAL-MATRIX COMPOSITE | APPLICATIONS OF SYNCHROTRON RADIA- TION-BASED XRD AND XAFS IN METALLIC GLASSES | QUANTITATIVE CHARACTERISATION OF NANOSTRUC- TURAL COMPOSITES BY TRANSMISSION ELECTRON MICROSCOPY | INTERACTION FORCES' MEASUREMENT FOR VERY SHORT-LIVED CONTACTS AT HIGH VELOCITIES |
| 17.50 | Dr. Sergey Zherebtsov¹, Maxim Ozerov¹, Dr. Nikita Stepanov¹, Margarita Klimova¹ | Prof. Jian-Zhong Jiang¹, prof. dongxian zhang¹ | <u>Dr. Miroslawa Pawlyta</u> ¹. PhD student Bartlomiej Sobel¹ | Engineer Baptiste Martinet ^{1,2} , Engineer Stéphane Ski- ba ^{1,2} , PhD Mathieu Marquer ^{1,3} , PhD Andrea Cappella ¹ , PhD Laurent Faure ¹ , PhD Sylvain Philippon ¹ |
| | ¹ Belgorod State University, Belgorod, Russian Federation | 'Zhejiang University, Hangzhou, China | 'Silesian University Of Technology, Gliwice, Poland | "Laboratoire d'Etudes des Microstructures et des Mé- caniques des Matériaux (LEM3), Metz, France, ² Safran Aircraft Engines, Safran Group, Moissy-Cramayel, France, ³ IRT M2P, Metz, France |
| | EFFECT OF HIGH-PRESSURE TORSION ON STRUCTURE AND PROPERTIES OF TI/TIB METAL-MATRIX COMPOSITE | STRUCTURAL PHASES OF NIOBIUM GERMANATE THIN FILMS BY DFT ASSISTED EXAFS ANALYSES | NANOWHISKERS Cuo: PREPARATION, STRUCTURE FEATURES, PROPERTIES, AND APPLICATIONS | IMPACT BEHAVIOR OF POROUS AL |
| 18.10 | Maxim Ozerovi | Prof. Mehmet Sahiner¹, Christopher Ciccarino¹, Rory Vander Valk¹, R. Morea², Jose Gonzalo², Joseph Woicik² | Dr. Maksim Dorogov ¹ , Dr. Alexander Kalmykov ² , Dr. Prof. Lev Sorokin ² , Mr. Andrey Kozlov ¹ , Mr. Alexander Myasosedov ² , Ms. Natalia Chirkunova ¹ , Dr. Katerina Aifantis ^{13,4} , Ms. Anastasia Priezzheva ¹ , Dr. Prof. Anatoly Vikarchuk ¹ , Dr.,Prof. Alexey Romanov ^{12,4} | DrEng. Nikolaos Michailidis ¹ , <u>Mr. Emmanouil</u> <u>Smyrnaios</u> ¹ , DrEng. Georgios Maliaris ² , DrEng. Fani Stergioudi ¹ |
| | 'Belgorod State University, Belgorod, Russian Federation | 'Seton Hall University, South Orange, United States, ² CSIC, Madrid, Spain, ³ NIST, Gaithersburg, United States | ¹ Togliatti State University, Togliatti, Russian Federation, ² Ioffe Physical Technical Institute, Russian Academy of Sciences, St. Petersburg, Russian Federation, ³ Univer- sity of Arizona, Tucson, United States of America, ¹ ITMO University, St. Petersburg, Russian Federation | 'Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristatle University of Thessaloniki, Thessaloniki, Greece, 'Mechatronics & Electromechanical Systems Automation Labora- tory, Dept. of Electrical and Computer Engineering, Polytechnics school, Democritus University of Thrace, Xanthi, Greece |
| | HIGHLIGHT ALUMINUM- AND COPPER-BASED ULTRAF- INE-GRAINED COMPOSITES REINFORCED WITH AI203 NANOPARTICLES FABRICATED BY ACCUMULATIVE ROLL BONDING | LONG-TERM STRUCTURAL STABILITY OF Zn-DOPED AMORPHOUS Sn02 THIN FILMS | MICROSTRUCTURAL CHARACTERIZATIONS OF CARBON FIBER ON THE NANOMETER SCALE | THE LONG PERIOD SUPERLATTICE IN Mg ALLOYS SYNTHESIZED UNDER HIGH PRESSURE AND TEMPERATURE |
| 18.30 | Dr. Konstantin Ivanov ¹ | Ms Qing Ma ¹ . <u>Dr. Qing Ma</u> ² , Dr. Bruce Buchholz ¹ , Professor Robert Chang ¹ , Professor Michael Bedzyk ¹ | Professor Lianlong He ¹ . Dr Gengheng Zhou ¹ , Mr Xinshuang Guo ¹ . Mr Yongxin Cheng ¹ | Professor Masafumi Matsushita', Naoya Fujita², Ryota Tsukamoto', Ryota Inugai', Michiaki Yamasaki³, Yoshihito Kawamura³, Tetsuo Irifune¹, Eiji Abe² |
| | ¹ Institute Of Strength Physics And Materials Science, Siberian Branch Of Russian Academy Of Sciences, Tomsk. Russian Federation | Department of Materials Science and Engineering, Northwestern University, Evanston, United States, *Northwestern Synchrotron Research Center, Northwestern University, Argonne, United States | ¹Institute Of Metal Research, CAS, Shenyang, China | 'Ehime University, Matsuyama, Japan, ² Tokyo University, Bunkyo-ku, Japan, ³ Kumamoto University, Kumamoto, Japan |
| | MICROSTRUCTURE AND MECHANICAL PROPERTIES OF FINE-GRAINED DUAL PHASE 800 STEEL PRO- CESSED BY FRICTION STIR PROCESSED | EVOLUTION OF THE SOLID ELECTROLYTE INTER- PHASE IN LI-ION ELECTRODES PROBED BY X-RAY ABSORPTION AND PHOTOEMISSION SPECTROSCOPY | HELIUM INVESTIGATION IN THE PORE OF IRRADIATED MATERIALS BY EELS TECHNIQUE | PRESSURE-INDUCED TRANSITIONS OF KESTERITE-TYPE Cu2ZnSnS4 |
| | MS Semih Aktarer ¹ , PhD Tevfik Kucukomeroglu ² , MS Murat Sekban ² , PhD Gencaga Purcek ² | Prof. Andrea Di Cicco ¹ , Dr. Javad Seyed Rezvani, Dr. Angela Trapananti, Prof. Roberto Gunnella, Dr. Matteo Ciambezi | <u>Dr. Kirill Prikhodko</u> ¹² , Olga Emelyanova ² | Dr. Ilias Efthimiopoulos ¹ , Ms. Anna Ritscher ^{2,3} , Mr. Marcel Quennel ^{3,4} , Prof. Dr. Martin Lerch 2, Prof. Dr. Beate Paulus ¹ Dr. Sergio Speziale ¹ , Dr. Anna Pakhomova ² , Dr. Hanns-Peter Liermann ⁵ , Prof. Dr. Monika Koch-Mueller ¹ |
| 18.50 | ¹ Recep Tayyip Erdogan University, Rize, Turkey, ² Karadeniz Technical University, Trabzon, Turkey | ¹ University Camerino, Italy | ¹ National Research Centre "Kurchatov Institute", Moscow, Russian Federation, ² National Research Nuclear University (MEPhl), Moscow, Russian Federation | ¹ Deutsches GeoForschungsZentrum GFZ, Section 4.3, Telegrafenberg, 14473 Potsdam, Germany, ² Institut fuer Chemie, Technische Universitaet Bertin, Strasse des 17-Juni 135, 10823 Bertin, Germany, ³ Helm- holtz-Zentrum Bertin fuer Materialten und Energie. Hahn-Meitiner-Platz 1, 14109 Bertin, Germany, ⁴ Institut für Chemie und Biochemie, Freie Universität Bertin, Takustrade 3, 1419 Bertin, Germany, ⁵ Deutsches Elektronen-Synchrotron DESY, Nolkestrasse 85, 22603 Hamburg, Germany |
| | | | THE EFFECT OF MICROSTRUCTURE ON MAGNETIC COUPLING IN FePU/SPACER/FePt TRILAYERS | Fes Polymorphs: Stability and Thermodynamics from ab Initio Modelling |
| 19.10 | | | Dr. Andreas Kaidatzis¹, Dr. George Giannopoulos¹, Dr. Vassilis Psycharis¹, Dr. Dimitrios Niarchos¹, Prof. Gianni Barucca², Assoc. Prof. George Dimitrakopulos³, Emer. Prof. Theodoros Karakostas³, Prof. Philomela Komninou³, Dr. José Miguel García-Martin², Dr. Gaspare Varvaro⁵, Dr. Alberto Maria Testas⁵ | Dr Umberto Terranova¹, Prof Nora de Leeuw¹ |
| | | | ¹ NCSR 'Demokritos'', Aghia Paraskevi, Greece, ² Università Politecnica delle Marche, Dipartimento SIMAU, Ancona, Italy,' Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ⁴ Instituto de Microelectronica de Madrid, Tres Cantos, Madrid, Spain, ⁵ nM2-Lab, ISM-CNR, Rome, Italy | ¹ School of Chemistry, Cardiff University, United Kingdom |



| Symposium | D4 | D8 | D9 | D10 |
|---------------|---|--|---|--|
| Room | Library Hall/M2 | I -16/M1 | Maurice Saltiel Hall I/M2 | CR II Hall/M2 |
| Session Title | Session 9 - Multi-scale modelling of Fracture | Oxides and complex phases | Nuclear Fuel (II) | Plasticity |
| Chairperson | Christophe Pinna, Eric Le Bourhis | Martin Friak | D. Manara | Siegfried Schmauder, Michael Agoras |
| 17.30 | <u>HIGHLIGHT</u> GRADELA AND CHEMOFRACTURE | HIGHLIGHT Mg/MgO INTERFACE FORMATION | KEYNOTE/INVITED THERMODYNAMICS AND KINETICS OF FISSION PRODUCTS AND IMPURITIES IN NITRIDE AND SILICIDE FUELS | HIGHLIGHT FULL-FIELD MODELING OF SPHEROIDIZATION PHENOMENON IN A/B TITANIUM ALLOYS DURING HOT-DEFORMATION AND SUBSEQUENT ANNEALING AT A GIVEN TEMPERATURE |
| | Dr. Ioannis Tsagrakis ¹ , Dr. Iason Konstantopoulos ¹ , <u>Professor Etias C. Aifantis</u> ^{1,2,3,5} | <u>Dr Andrew Horsfield</u> ¹ , Dr Wenwu Xu ¹ , Dr David Wearing ¹ , Prof Peter Lee ² | | <u>Danai Polychronopoulou</u> ¹, Nathalie Bozzolo¹, Marc Bernacki¹ |
| | ¹ Aristatle University of Thessaloniki. Thessaloniki. GR-54124. Greece, ² Michigan Technological University, Houghton, M 49931, USA, ¹ Beijing University of Civil Engineering and Architecture, Beijing, 100044. China, ⁴ ITMO University, 5t. Petersburg, 197101. Russia, ³ Togliatti State University, Togliatti, 445020, Russia | ¹ Imperial College London, London, United Kingdom, ² Unversity of Manchester, Manchester, United Kingdom | <u>Dr Par Olsson</u> ¹ , Dr Antoine Claisse ¹ , Dr Denise Adorno Lopes ¹ , Dr Thomas Schuler ² | 'MINES ParisTech, PSL Research University, CEMEF - Centre de mise en forme des matériaux, CNRS UMR 7635, CS 10207, rue Claude Daunesse, 06904 Sophia Antipolis Cedex , France |
| | DEFORMATION AND FAILURE IN AMORPHOUS SOLIDS ON MICRO- AND NANO SCALES: COMPUTATIONAL MODELLING | ATOMISTIC SIMULATIONS OF OXIDATION MECHANISM OF POLYCRYSTALLINE AND DOPED ALUMINIUM USING REACTIVE FORCE FIELD AND AB INITIO METHODS | ¹ KTH Royal Institute Of Technology, Stockholm, Sweden, ² University of Illinois, Urbana-Champaign, USA | LIFE PREDICTION APPROACH FOR A SHORT FIBER REINFORCED COMPOSITE MATERIAL SUBMITTED TO TEMPERATURE VARIATION DURING FATIGUE LOADING |
| 17.50 | Michael Zaiser¹ | Phd Marcela E. Trybula ¹² , Dominika Wieczorek ³ , PhD P. A. Korzhavyi ¹ | | Mohamed Amine Laribi ¹² , Sahbi Tamboura ² , Joseph Fitoussi ¹ , Robert Tiebi ² , Hachmi Ben Daly ² , Tcharkhtch Abbas ¹ |
| | 'FAU University of Erlangen-Nuremberg, Germany | KTH Royal Institute Of Technology, Stockholm, Sweden, Institute of Metallurgy and Materials Science PAS, Krakow, Poland-Fraculty of Physics, Astronomy and Applied Computer Science, Jagiellonian University, Krakow, Poland | | ¹ Ensam Paristech, 75013 Paris, France, ¹ ENISo, 4054 Sousse, Tunisia, ³ Automotive Exteriors Europe, 18 bis rue de Verdun BP 15178, 25402 Audincourt, France, Audincourt, France |
| 18.10 | FINITE ELEMENT ANALYSIS OF DYNAMIC FRACTURE MODELLED WITH ERINGEN'S THEORY OF GRADIENT ELASTICITY | FIRST-PRINCIPLES MODEL POTENTIALS FOR CHEMICALLY INHOMOGENEUS OXIDES | KEYNOTE/INVITED IDENTIFICATION OF VACANCY-TYPE DEFECTS IN URANIUM DIOXIDE | CONSTRUCTION, ASSESSMENT AND TESTING OF BOND-ORDER POTENTIAL FOR Fe-Nb |
| | Professor Harm Askes', Dr Inna Gitman' | Carlos Escorihuela-Sayalero¹, Ph. D. Jorge Iñiguez¹,2 | | <u>Alvin Noe Ladines</u> ¹, Thomas Hammerschmidt, Ralf Drautz |
| | ¹ University Of Sheffield, Sheffield, United Kingdom | 'Luxembourg Institute of Science and Technology, Belvaux, Luxembourg, 'Institut de Ciència de Materials de Barcelona, Cerdanyola del Vallès, Spain | <u>Dr Pierre Desgardin</u> ¹ , Dr Marie France Barthe ¹ , Dr Julia Wiktor ² , Dr Marjorie Bertolus ² , Dr Gerald Jomard ² , Dr Gaelle Carlot ² , Dr Philippe Garcia ² , Dr Guillaume Martin ³ | ¹lcams, Ruhr-universitaet Bochum |
| | OPTIMISED POSITION AND SIZE OF SYMMETRIC CRACK FLANK HOLES: NUMERICAL METHODOLOGY AND EXPERIMENTAL VALIDATION | | | BUCKLING OF THIN FILMS ON PLASTICALLY DEFORMED SUBSTRATES |
| 18.30 | Dr Inna Gitman ¹ , Dr Hassan Ghadbeigi ¹ , Mr Alwin Babu Kannadikara ¹ , Mr Ammar Al-Rubaye ¹ | | | Dr Julien Durinck ¹ , Pr Jérôme Colin ¹ , Pr Christophe Coupeau ¹ , Dr Antoine Ruffini ² , Dr Guillaume Parry ² , Dr Sami Hamade ¹ , Pr Alain Cimetière ¹ |
| | [†] The University of Sheffield, Sheffield, United Kingdom | | ¹ CEMHTI/CNRS, Orléans, France, ² DEN/DEC/SESC, CEA Cadarache, Saint Paul lez Durance, France, ² CEA, DEN, SPRC, LECy, Saint Paul lez Durance, France | ¹Institut P', Chasseneuil-Futuroscope, France, ²SIMAP, Grenoble, France, 3LEM, Châtillon, France |
| | DOUBLE DIFFUSIVITY IN PRESENCE OF FINITE TIME CORRELATED STOCHASTIC FORCING | | VACANCY DEFECTS AND HELIUM BEHAVIOR IN (U.La)02-X COMPOUNDS FOR THE STUDY OF TRANSMUTATION FEASIBILITY | CRYSTAL PLASTICITY MODEL FOR DESCRIBING HARDENING BEHAVIOR OF DUAL PHASE STEEL DURING STRAIN PATH CHANGES |
| 18.50 | <u>Dr Amit Chattopadhyay</u> i, Professor Elias Aifantis² | | Dr Chenwei He ¹ , Dr Marie France Barthe ¹² , Dr Thierry Sauvage ¹² , Dr Pierre Desgardin ¹² , Dr Hélène Lecoq ¹² , Dr Patrick Simon ¹² , Dr Thierry Wiss ² , Dr Daniel Freis ³ | Hwigeon Kim¹. Youngung Jeong², Frédéric Barlat¹ |
| | 'Aston University. Birmingham, United Kingdom, 'Aristotle University. Thessaloniki. Greece | | CNRS, UPR3079 CEMHTI, 3A rue de la Férollerie, 45071 Orléans cedex2, France, Université d'Orléans, Avenue du Parc Floral, BP 6749, 45067 Orléans cedex 2, France, European Commission, Joint Research Centre, Institute for Transuranium Elements, P.O. Box 2340, 76125 Karlsruhe, Germany | 'Graduate Institute of Ferrous Technology (GIFT), Pohang University of Science and Technology (POS- TECH). Gyeongbuk, Republic of Korea, ¹ Department of Materials Science and Engineering, Changwon Nationa University, Gyeongnam, Republic of Korea |
| | | | BASIC PROPERTIES OF OXIDE NUCLEAR FUELS: ATOMIC SCALE INVESTIGATIONS OF THE TRANSPORT PROPERTIES OF URANIUM DIOXIDE IN SUPPORT OF SEPARATE EFFECT EXPERIMENTS | SPRINGBACK PREDICTION FOR ULTRA-THIN STAINLESS STEEL SHEETS |
| 19.10 | | | Dr. Marjorie Bertolus ¹ , Dr. Michel Freyss ¹ , Dr. Emerson Vathonne ¹ , Dr. Julia Wiktor ¹ , Ibrahim Cheik Njifon ¹ , Dr Gérald Jomard ¹ | JaeHyun Choi ¹ , F. Barlat ¹ , M.G. Lee ² , J.H. Kim ¹ |
| | | | 'CEA, DEN, DEC/SESC, Centre de Cadarache, Saint-Paul-lez-Durance, France | ''Graduate Institute of Ferrous Technology, Pohang University of Science and Technology, Pohang, Republic of Korea, ² Korea University, Seoul, Republic of Korea |

| Symposium | E3 | E4 | F3 |
|---------------|---|--|---|
| Room | Rehearsal Room 5.17/M1 | Conference Room 2/M1 | 3-21/M1 |
| Session Title | Materials for Energy Harvesting | Fuel and component ? | Nanobiomaterials and nanotechnology for implants, devices and theranostics I |
| Chairperson | Paul R. Ohodnicki | Marie-France Barthe | Alejandro Baeza |
| | DURABILITY STUDIES OF SOLAR REFLECTORS FOR COOLED SECONDARY CONCENTRATORS USED IN SOLAR APPLICATIONS | PREPARING THE FUTURE POST-MORTEM ANALYSIS OF BERYLLIUM-BASED JET AND ITER SAMPLES BY MULTI-WAVELENGTHS RAMAN SPECTROSCOPY | COORDINATION POLYMER PARTICLES AS NANOPLATFORMS FOR HIV ANTIRETROVIRAL DRUG RELEASE |
| 17.30 | Phd student Alejandro García-Segura', Dr Aránzazu Fernández-García', Dr Loreto Valenzuela', Dr Florian Sutter², Bachelor student Julio Andrés Rabal-Escarbajal³ | Cedric Pardanaud ¹ , M. I. Rusu ^{1,2} , Y. Ferro ¹ , G. Giacometti ¹ , C. Martin ¹ , Y. Addab ¹ , P. Roubin ¹ , M. Minissale ¹ , L. Ferry ³ , F. Virot ³ , M. Barrachin ³ , C. P. Lungu ⁴ , C. Poroniscu ⁴ , P. Dinca ⁴ , M. Lungu ⁴ , M. Köppen ⁵ , P. Hansen ⁵ , Ch. Linsmeier ⁵ | Rubén Solórzano ^{1,2} , Ramon Alibés ² , Félix Busqué ² , Julia Lorenzo ³ , Fernando Novio ¹ , Daniel Ruiz-Molina ¹ |
| - | ¹ CIEMAT-PSA, Tabernas, Almería, Spain, ² DLR, Tabernas, Almería, Spain, ³ UPV, Engineering School of Gipuzkoa, Eibar, Spain | 'Aix-marseille Université, Marseille, France, 'National Institute of R&D for Optoelectronics , Magurele-Bucharest, Romania, 'Institut de Radioprotection et Siret Nucleiere, Saint Paul-lez-Durance, France, 'National Institute for Laser, Plasma and Radiation Physics, Magurele-Bucharest, Romania, 'Forschungszentrum Jülich GmbH, IEK4 - Plasmaphysik, Jülich, Germany | ¹ Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and The Barcelona Institute of Science and Technology, Campus UAB, Bellaterra, Spain, ² Departament de Ouimica, Universitat Autònoma de Barcelona, Bellaterra, Spain, ² Institut de Biotecnologia i Biomedicina, Universitat Autònoma de Barcelona, Bellaterra, Spain |
| | BROMINATED FLAME RETARDANTS (BFRs) REDUCTION IN PLASTICS FROM ELECTRONIC AND ELECTRIC EQUIPMENT WASTE (WEEE) FRACTION AS A TREATMENT METHOD PRIOR TO PYROLYSIS | CLOSE TO ZERO PERMEATION ALUMINA BASED PROTECTIVE COAT | TARGETED-MESOPOROUS SILICA NANOPARTICLES TO TREAT BACTERIA INFECTION |
| 17.50 | Mr Panagiotis Evangelopoulos ¹ , Miss Samantha Arato ² , Mr Henry Persson ¹ , Dr Efthymios Kantarelis ¹ , Dr Weihong Yang ¹ | Daniele ladicicco¹, <u>Matteo Vanazzi²</u> , Francisco Garcia Ferré¹, Marco Utili³, Serena Bassini³, Fabio Di Fonzo¹ | Mr. Jaime Diez-Mérida ¹ , <u>PhD Isabel Izquierdo-Barba</u> ¹² , PhD Montserrat Colilla ¹² , Prof. María Vallet-Regí ¹² |
| | ¹ KTH Royal Institute of Technology, Stockholm, Sweden, Stockholm, Sweden, ² The City College of New York, New York, United States | 'CNST-Istituto Italiano di Tecnologia (IIT), Milano, Italia, ² Dipartimento di Energia - Politecnico di Milano, Milano, Italia, ² ENEA - Nuclear Material Characterization Laboratory , Brasimone, Italia | ¹ Facultad de Farmacia, Universidad Complutense de Madrid. Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12, Madrid, Spain, ² CIBER de Bioingeniería, Biomateriales y Nanomedicina, CIBER-BBN, Madrid, Spain |
| | CORROSION BEHAVIOUR OF STEELS IN NITRATE MOLTEN SALT AT HIGH TEMPERATURE FOR SOLAR THERMAL POWER PLANTS | RADIATION DAMAGE CHARACTERISATION IN TANTALUM-TUNGSTEN ALLOYS AFTER PROTON IRRADIATION | ENGINEERING BACTERIAL CELLULOSE NANOCOMPOSITES |
| 18.10 | Dagmar Rückle ¹ , Dr. Stefanie Kaesche ¹ , Prof. Dr. Sannakaisa Virtanen ² , Prof. Dr. Burkhard Heine ³ , Prof. DrIng Harald Garrecht ¹ | Ms Iuliia Ipatova¹, Dr Enrique Jimenez-Melero | Muling Zeng ¹ , Anna Roig ¹ , <u>Anna Laromaine</u> ¹ |
| | ¹ MPA Universität Stuttgart. Stuttgart, Germany, ² Friedrich-Alexan- der-Universität Erlangen-Nürnberg, Erlangen, Germany, 3Hochschule Aalen, Aalen, Germany | 'The University Of Manchester, Manchester, United Kingdom | ¹Institut de Ciència de Materials de Barcelona, ICMAB-CSIC, Campus UAB. 08193 Bellaterra, Barcelona - Spain, Spain. |
| | INVESTIGATIONS ON PRIMARY REFLECTORS FOR SOLAR THERMAL APPLICATIONS EXPOSED TO CORROSIVE ATMOSPHERES | COMPARISON OF COLD-WORKED AND PROTON IRRADIATION HARDENING AND THE ANNEALING RECOVERY OF ZIRCONIUM LINER AND ZIRCALOY-2 | ZWITTERIONIC MESOPOROUS SILICA NANOPARTICLES: LOW-FOULING NANOSYSTEMS FOR BIOMEDICAL APPLICATIONS |
| 18.30 | Phd student Alejandro García-Segura ¹ , Dr Aránzazu Fernández-García ¹ , Dr María Jesús Ariza ² , Dr Florian Sutter ³ , Dr Loreto Valenzuela ¹ | Mr. Petit Wiringgalih¹, Dr. Matthew Topping¹, Dr. Alistair J. W. Garner¹, Prof. Michael Preuss¹, Dr. Philipp Frankel¹ | Ms. Silvia González-Piñeiro ¹ , Dr. Montserrat Colilla ¹² , Dr. Isabel Izquier- do-Barba ¹² , Prof. Dr. María Vallet-Regi ¹² |
| | ¹CIEMAT-PSA, Tabernas, Almería, Spain, ²Universidad de Almería, Almería, Spain, ³DLR, Tabernas, Almería, Spain | 'School Of Materials, The University Of Manchester, Manchester, United Kingdom | 'Ippto. Química Inorgánica y Bioinorgánica, Facultad de Farmacia. Universidad Complutense de Madrid. Instituto de Investigación Sanitaria Hospital 12 de Octubre i+12, Madrid, Spain, ² Centro de Investigación Biomédica en Red de Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Madrid, Spain |
| | THEORETICAL AND EXPERIMENTAL ANALYSIS OF OPTICAL PROPERTIES OF Cu2ZnSn(S,SE) ⁴ SOLAR ABSORBERS | RESIDUAL STRESS ASSESSMENT OF CONDUCTORS FOR FUSION MAGNET SYSTEMS | SILVER NANOPARTICLES SUPPORTED ON MESOPOROUS SILICA NANOPAR- TICLES FUNCTIONALIZED WITH PROTEINS: HYBRID NANOSYSTEMS AGAINST TUBERCULOSIS |
| 18.50 | <u>Sergiy Zamulko</u> ¹ , Kristian Berland ¹ , Shu-yi Li ² , Charlotte Platzer-Björkman ² , Clas Persson ^{1,3} | Pilar Fernandez Pison ¹² , Ignacio Aviles Santillana ¹² , Stefanie Lang- eslag ¹ , Stefano Sgobba ¹ , Oscar Sacristan De Frutos ¹ , Laura Bianchi ¹³ , Michael Guinchard ¹ | Miss Sandra Montalvo-Quirós ⁴ , Prof. María Vallet-Regí ^{1,2} , Dr. Rafael Prados-Rosales ³ , Dr. Jose Luis Luque-García ⁴ , Dr. Blanca González ^{1,2} |
| | 'University Of Oslo. Oslo. Norway. 'Uppsala University. Uppsala, Sweden, 'KTH Royal Institute of Technology, Stockholm, Sweden | ¹CERN. Geneva, Switzerland, ²University Carlos III of Madrid, Madrid, Spain, ³University of Pisa, Pisa, Italy | 'Facultad de Farmacia, Universidad Complutense De Madrid, Madrid, Spain, 'Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain, 'Center for Cooperative Research in Bioscience CICbioGUNE, Bizkaia, Spain, 'Facultad de Cien- cias Químicas, Universidad Complutense de Madrid, Madrid, Spain |
| | STM AND XPS INVESTIGATION OF ZINC(II) TETRAPHENYLPORPHYRIN ADSORPTION ON Au(111) SURFACE: FROM MONOLAYER TO MULTILAYER | ACCURATE AND UNIVERSALLY APPLICABLE DFT CALCULATIONS FOR LARGE SYSTEMS | HEMOCOMPATIBILITY OF COATINGS DEDICATED FOR NOVEL BLOOD CONTACTING DEVICES |
| 19.10 | Oreste De Luca ^{1,3} , Dr Tommaso Caruso ^{1,2} , Ilenia Grimaldi ¹ , Dr Marco Papagno ¹ , Dr Alfonso Policicchio ^{1,2,3} , Dr Daniela Pacilé ¹ , Prof. Vincenzo Formoso ^{1,2,3} , Prof Raffaele Giuseppe Agostino ^{1,2,3} | Dr. Stephan Mohr ¹ , <u>Marc Eixarch</u> ¹ , Prof. Dr. Mervi Mantsinen ¹ | Phd Aldona Mzyk ¹ , Prof. Roman Major ¹ , Prof. Juergen M. Lackner ² , Prof. Marek Sanak ³ , Prof. Boguslaw Major ¹ |
| | ¹ Dipartimento di Fisica, Università della Calabria, Arcavacata Di Rende (Cs.), Italy, ² Consiglio Nazionale Interuniversitario Scienze Fisiche della Materia (C.N.I.S.M), Roma , Italy, ³ CNR-Nanotec, UOS di Cosenza, Arcavacata Di Rende (Cs), Italy | ¹ Barcelona Supercomputing Center, Barcelona, Spain | 'Institute of Metallurgy and Materials Science PAS, Krakow, Poland, 'Joanneun Research Forschungsges. Institute for Surface Technologies and Photonics, Functional Surfaces, Niklasdorf, Austria, 'Department of Medicine, Jagielloniar University Medical College, Krakow, Poland |
| 19.30 | | | |



| Symposium | IAT ZUI7 | A7 | B1 | B2 |
|---------------|--|---|--|--|
| Room | I-11/M1 | Rehearsal Room 5.17 /M1 | Maurice Saltiel Hall I/M2 | Aimilios Riadis Hall/M2 |
| Session Title | Interface and Surface Magnetism | Electrodeposition | Advanced Manufacturing | Magnesium |
| Chairperson | M. Farle | Poi See Lee | Wolfgang Bleck | Eric Nyberg |
| | <u>KEYNOTE/INVITED</u> SHELL-FERROMAGNETISM | SYNTHESIS OF COPPER AND TIN NANOWIRES BY APPLYINGTEMPLATE-ASSISTED DIRECT AND PULSE ELECTRODEPOSITION | KEYNOTE/INVITED ALTERNATIVE PROCESSING OF ADVANCED HIGH- STRENGTH STEELS BY ADDITIVE MANUFACTURING | HIGHLIGHT DESIGN, PROPERTY AND CHARACTERISATION OF HIGH-STRENGTH Mg-Gd BASED ALLOYS |
| 11.00 | | Phd Eleni Rosolymou', Maria Emmanouela Kassalia ¹ , Associate Professor Evangelia Pavlatou ¹ | | Prof. Liming Peng ¹ , Dr. Yu Zhang ¹ , Mr. Wei Rong ¹ , Assoc. Prof. Wu-Juan Wu ¹ , Prof. Jiang-Feng Nle ² |
| | Dr Asli Cakir ² , Ms Franziska Scheibel ¹ , <u>Prof. Dr. Mehmet Acet</u> ¹ , Prof. Dr. Michael Farle ¹ | 'School of Chemical Engineering, National Technical University of Athens, Athens, Greece | Dr. Christian Haase ¹ , Jan Bültmann ¹ , Stephan Ziegler ² , Sebastian Bremen ² , Christian Hinke ² , Alexander Schwedt ³ , Dr. Ulrich Prahl ¹ , Prof. Dr. Wolfgang Bleck ¹ | 'Shanghai Jiaotong University, Shanghai, China, ² Monash Univerisity, Melbourne, Australia |
| | | ELECTRODEPOSITION OF Bi/GaAS DIODES | | HIGHLIGHT ALLOYING ROLE OF Ag ON MICROSTRUCTURES AND MECHANICAL PROPERTIES OF Mg-Gd(-Zr) AND Mg-Y(-Zr) ALLOYS |
| 11.20 | ¹ Uiniversity Of Duisburg-Essen, Duisurg, Germany, ² Mugla Sitki Kocman University, Mugla, Turkey | Dr. Alicia Prados¹, Dr. Rocío Ranchal¹ | **Department of Ferrous Metallurgy, RWTH Aachen University, Aachen, Germany, *Fraunhofer-Institute for Laser Technology ILT, Aachen, Germany, *Central Facility for Electron Microscopy, RWTH Aachen University, Aachen, Germany | Phd Yu Zhang ^{1,2} , PhD Wei Rong ¹ , Research Asisitant Yujuan Wu ¹ , Prof. Liming Peng ¹ , Prof. Nick Birbilis ² , Prof. Jian-Feng Nie ² |
| | | ¹Dpto. Física de Materiales, Fac. de CC. Físicas, Universidad Complutense de Madrid, Madrid 28040, Spain | . , , , | ¹Shanghai Jiao Tong University, Shanghai, China, ²Monash University, Melbourne, Australia |
| | HIGHLIGHT MAGNETO-PLASMONIC METASTRUCTURES | COPPER AND COPPER OXIDE-MODIFIED BORON-DOPED DIAMOND ELECTRODES FOR ELECTROCHEMICAL REDUCTION OF CO ₂ | EFFECT OF ALLOYING ELEMENTS ON GRAIN SIZE STABILITY OF 18/8 STAINLESS STEEL | PRECIPITATION STRENGTHENING IN Mg-RE ALLOYS |
| 11.40 | Ellen Wiedemann ¹ , Dr. Spyridon Pappas ¹ , Sascha Keller ¹ , Markus Rollinger ¹ , Dr. Martin Aeschlimann ¹ , Dr Evangelos Papaioannou ¹ | Dr. Tribidasari A. Ivandini [†] , Dr. Yasuaki Einaga ² | Hasan Kotan'. Ahmet Burcin Batibay | Prof. Xiaoqin Zeng |
| | ¹ Department of Physics and State Research Center OPTIMAS, TU Kaiserslautern, Kaiserslautern, Germany | ¹Universitas Indonesia, Jakarta, Indonesia, ²Keio University, Yokohama, Japan | ¹Konya Neu, Konya, Turkey | 'School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai, China |
| | HIGHLIGHT INTERLAYER EXCHANGE COUPLING IN Fe-Pt-MN NANOCOMPOSITE MAGNETIC THIN FILMS | Zno nanorods grown by a novel electrodeposition method | STUDY OF AN ALTERNATIVE MECHANICAL ALLOYING PROCESS FOR OXIDE DISPERSION-STRENGTHENED STEELS MANUFACTURING | MARTENSTIC TRANSFORMABLE Mg-Sc BASED ALLOY AND ITS FUNCTIONALITY |
| 12.00 | <u>Dr. Ovidiu Crisan</u> ¹, Dr. Aurel Leca¹, Dr. Alina Daniela Crisan¹, Dr. Gabriel Schinteie¹, Dr. Victor Kuncser¹ | Dr Nikos Boukos ¹ , Dr Elias Sakellis ^{1,2} , Dr Chryssa Chandrinou ¹ , Dr Kostas Giannakopoulos ¹ , Dr Anastasios Travlos ¹ | Esther Simondon ¹ , Dr. Pierre-François Giroux ¹ , Dr. Laurent Chaffron ¹ , Dr. Philippe Castany ² , Dr. Thierry Gloriant ² | Dr Daisuke Ando', Dr Yukiko Ogawa², Mr Yuta Takeuchi¹, Dr Yuji Sutou¹, Dr Junichi Koike¹ |
| | 'National Institute For Materials Physics, Magurele, Romania, Magurele, Romania | 'National Centre For Scientific Research 'Demokritos', Institute of Nanoscience and Nanotechnology, Agia Paraskevi Attikis, Greece 'University of Athens, Physics Department, Section of Solid State Physics, Zografos, Athens, Greece | ¹ DEN - Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, Gif-sur-Yvette, France, ² INSA Rennes, Rennes, France | 'Tohoku University, Sendai, Japan, 'National Institute for Materials Science, Tsukuba, Japan |
| | SKYRMIONS IN CYLINDRICAL MAGNETIC NANOWIRES | STUDY OF THE INFLUENCE OF Zr7Ni10 ADDITIVE ON TEMPERATURE - KINETIC CHARACTERISTICS OF ELECTROCHEMICAL PROPERTIES OF MULTI-COMPO- NENT (TiCr1.8)1-xVx ALLOY | STUDY OF PRIOR AUSTENITE GRAIN BOUNDARIES IN ZINC COATED PRESS HARDENED STEEL BY ATOM PROBE TOMOGRAPHY | THE EFFECTS OF Zn ADDITION ON MECHANICAL PROPERTIES AND MARTENSITIC TRANSFORMATION TEMPERATURE FOR Mg-Sc ALLOY |
| 12.20 | Dr. Michalis Charilaou ¹ , Leonardo Pierobon ¹ , Prof. Dr. Jörg F. Löffler ¹ | Anastasiya Mironova¹, Maksim Erzhenkov¹, Natalia Medvedeva¹, Natalia Skryabina¹, Daniel Fruchart² | <u>Dr. Christina Hofer</u> ¹ , Dr. Thomas Kurz ² , Prof. Helmut Clemens ¹ , Prof. Ronald Schnitzer ¹ | Yuta Takeuchi ¹ , Dr. Daisuke Ando ¹ , Dr. Yukiko Ogawa ¹ Dr. Yuji Sutou ¹ , Dr. Junichi Koike ¹ |
| | Laboratory of Metal Physics and Technology, ETH Zurich, Zurich, Switzerland | ¹ Perm State University, Perm, Russian Federation, ² CNRS, Institut Néel, Grenoble, France | ¹ Department Of Physical Metallurgy And Materials Testing, Montanuniversität Leoben, Leoben, Austria, ² Voestalpine Stahl GmbH, Linz, Austria | ¹Tohoku University, Sendai, Japan. ²National Institute for Materials Science, Tsukuba, Japan |
| | | MICROSTRUCTURE STUDY OF ANODIC LAYERS FOR BIOMEDICAL APPLICATION | STUDY ON FACTORS AFFECTING TOUGHNESS AND BENDABILITY OF PRESS HARDENING STEEL | |
| 12.40 | | Studente Djamila Atmani ¹ | Seongwoo Kim¹, Jinkeun Oh¹, Yeol-Rae Cho¹, In-Shik Seo¹ | |
| | | Centre Développement Téchnologie Avancées (CDTA)/ Universite Technologique Houaril Boumedienne/ USTHB, Algies, Algeria, Centre Développement Téchnologie Avancées (CDTA), Algies, ALGERIA, ³ Universite Technologique Houaril Boumedienne, Algies, Algeria, 'École Militaire Polytechnique bordj El Bahri, Algies, Algeria | POSCO Technical Research Laboratories, Gwangyang-si. Korea | |



| Symposium | B3 | B4 | В7 | B8 |
|---------------|---|--|---|---|
| Room | CR I Hall/M2 | 3.20/M1 | CR III Hall/M2 | Conference Room 1/M1 |
| Session Title | Oxidation | Mechanical properties and annealing behaviour | MOF Mechanics, Mechanical Properties, and Structural Dynamics | Mechanical Properties |
| Chairperson | Srdjan Milenkovic | Frank Kümmel | Jin-Chong Tan | Joo Hyun Park |
| 11.00 | EFFECT OF PRESSURE ON METAL DUSTING IN CO- RICH SYNGAS OF HIGH TEMPERATURE ALLOYS | KEYNOTE/INVITED ANNEALING STRATEGIES TO IMPROVE THE FORMABILITY OF UFG FERRITE STEELS | IMPACT OF THE MECHANICAL PRESSURE UNDER VARIOUS CONDITIONS ON THE FLEXIBILITY OF VARIOUS METAL ORGANIC FRAMEWORKS | HIGH-ENTROPY ALLOYS: MATERIALS DEVELOPMENT AND PLASTICITY |
| | Ms Sonja Madloch ¹ , PD DrIng Mathias C. Galetz ¹ | | Dr. Pascal G. Yot¹, Dr. Padmini Ramaswamy¹, Dr. Jelle Wieme², Dr. Louis Vanduyfhuys², Dr. Christian Serre², Pr. Veronique Van Speybroeck², Pr. Guillaume Maurin¹ | <u>Dr. Michael Feuerbacher</u> ', Carsten Thomas ¹ |
| | 'DECHEMA-Forschungsinstätut. Frankfurt am Main, Germany | Dr. Enrico Bruder ¹ , Jörn Niehuesbernd ¹ , Prof. Clemens Müller ¹ | ¹ University of Montpellier, Montpellier, France, ² Ghent University, Ghent, Belgium, ³ Ecole Normale Supérieure de Paris, Paris, France | 'Juelich Research Centre, Juelich, Germany |
| | FACTORS AFFECTING THE OXIDATION OF PURE CHROMIUM AT HIGH TEMPERATURES | | HIGHLIGHT GROUP THEORY TO PREDICT MOFS FLEXIBILITY | EFFECTS OF CHEMICAL COMPOSITION OF HEAS FROM Cocffemani Family on Crystal Defects and Mechanical Properties |
| 11.20 | Ali Soleimani-Dorcheh¹, Prof. Michael Schütze¹, Dr. Mathias Galetz¹ | ¹ TU Darmstadt, Darmstadt, Germany | Dr Arnaud Marmier¹ | Prof. Anna Fraczkiewicz ¹ , Michal Mroz ¹ |
| | 'DECHEMA-Forschungsinstitut, Frankfurt Am Main, Germany | | 'University of the West of England, Bristol. United Kingdom | 'Mines St Etienne, France, St Etienne, France |
| | LONG-TERM OXIDATION BEHAVIOR OF AN ADVANCED TI-AL-Nb ALLOY IN AIR AT 700 AND 800 °C | RECRYSTALLIZATION IN NANOGRAINED STAINLESS STEEL 316LVM ANNEALED UNDER HIGH HYDRO- STATIC PRESSURE | REVEALING THE LINK BETWEEN TERAHERTZ VIBRATIONS AND MECHANICAL PROPERTIES | DEVELOPMENT OF ULTRA-FINE GRAIN MICRO- STRUCTURES IN HIGH-ENTROPY ALLOYS VIA PHASE TRANSFORMATION ASSISTED RECRYSTALLIZATION |
| 11.40 | Doctor Mickaël Dadé ¹ , Doctor Vladímir Esin ¹ , Doctor Loeiz Nazé ¹ , Doctor Pierre Sallot ¹ | Phd Agnieszka Krawczynska¹, PhD Stanislaw Gierlotka², PhD Daria Setman², Professor Malgorzata Lewandowska¹, Professor Micheal Zehetbauer³ | Matthew Ryder ^{1,23} , Dr Svemir Rudic ² , Prof Bartolomeo Civalleri ⁴ , Dr Gianfelice Cinque ³ , Prof Felix Fernan- dez-Alonso ² , Prof Jin-Chong Tan ¹ | Professor Ivan Guillot ¹ , Lola Lilensten ^{1,2} , Alexander Edwards ^{1,2} , Clément Keller ² , Julie Bourgon ³ , Pirès Rémy ³ , Loic Perrière ¹ , Philippe Vermaut ² , Jean-Philippe Couzinié ¹ , Frédéric Prima ² |
| | Mines ParisTech/Centre Des Matériaux P.M. Fourt, Evry, France, 'Safran Tech, Magny Les Hameaux, France | ¹ Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland, ² Institute of High Pressure Physics, Warsaw, Poland, ³ University of Vienna, Faculty of Physics, Vienna, Austria | "University Of Oxford, Oxford, United Kingdom, "ISIS Neutron & Muon Source Facility, Rutherford Appleton Laboratory, United Kingdom, "Diamond Light Source, Harwell Campus, United Kingdom, "University of Turin, Torino, Italy | 'Université Paris Est, ICMPE (UMR 7182) CNRS-UPEC, 94320 Thiais, France, 'PSL Research University, Chimie Paris Tech CNRS, Institut de Recherche de Chimie Paris 75005 Paris, France, 'GPM, INSA Rouen, Université de Rouen, CNRS UMR 6634, BP 08, 76801 St. Etienne du Rouvray, France |
| | THERMAL CYCLING OXIDATION OF ALX (CoCrFeNi)100-x (x = 0, 3, 6, 9, 12) HIGH ENTROPY ALLOYS IN AIR AT 1273K | PRECIPITATION AND MECHANICAL PROPERTIES OF Cu-2Be ALLOY PROCESSED BY HIGH PRESSURE TORSION. | THERMODYNAMIC APPROACH TO ACCURATELY DETERMINE THE FLEXIBILITY AND LOSS OF CRYS- TALLINITY IN METAL-ORGANIC FRAMEWORKS | EVOLUTION OF STRUCTURE AND PROPERTIES WITH COMPOSITION OF SINGLE-PHASE Cr-Fe-Mn-Co-Ni MULTI-COMPONENTS ALLOYS |
| 12.00 | Juliusz Dąbrowa ¹ , Grzegorz Cieślak ² , Mirosław Stygar ¹ , Aleksander Gil ¹ , Tadeusz Kulik ² , Marek Danielewski ¹ | PhD Ivan Lomakin¹, PhD Anton Bondarenko¹, PhD Miguel Castillo Rodríguez², PhD Ilchat Sabirov² | Sven M.J. Rogge ¹ , Jelle Wieme ¹ , dr. Louis Vanduy- fhuys ¹ , prof. dr. An Ghysels ¹ , prof. em. dr. Michel Waroquier ¹ , prof. dr. Toon Verstraelen ¹ , prof. dr. Guil- laume Maurin ² , prof. dr. Veronique Van Speybroeck ¹ | Dr. Mathilde Laurent-Brocq ¹ , <u>Dr. Loïc Perriere</u> ¹ , Rémy Pirès ¹ , Dr. Sun Fan ³ , Dr. Sergiy Divinski ² , Dr. Jean- Philippe Couzinié ¹ , Pr Ivan Guillot ¹ , Pr. Gerhard Wilde ² Pr. Frédéric Prima ³ |
| | 'AGH University of Science and Technology, Faculty of Materials Science and Ceramics, Cracow, Poland, 'Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland | ¹ Saint Petersburg State University, Saint Petersburg, Russian Federation. ² IMDEA Materials, Madrid, Spain | ¹ Center For Molecular Modeling, Ghent University, Zwijnaarde, Belgium, ² Institut Charles Gerhardt Mont- pellier, Université Montpellier 2, Montpellier, France | 'ICMPE UMR7182 - CNRS/UPEC, Thiais, France, ² University of Münster, Münster, Germany, ³ IRCP UMR8247 CNRS/Chimie ParisTech, Paris, France |
| | INSIGHT INTO THE OXIDATION RESISTANCE OF REFRACTORY HIGH-ENTROPY ALLOYS COMBINED WITH OPTIMAL DUCTILITY | ULTRA-FINE GRAINED TI-15Mo ALLOY — EFFECT OF REFINED MICROSTRUCTURE ON MECHANICAL PROP- ERTIES AND PHASE TRANSFORMATIONS | ATOMIC FORCE MICROSCOPIC NANOINDENTATION STUDY OF METAL-ORGANIC FRAMEWORK THIN FILM COATINGS AND NANOSHEETS | EFFECT OF PROCESSING CONDITIONS ON MICRO- STRUCTURE AND MECHANICAL BEHAVIOUR OF SELECTED HEA ALLOYS FROM COCFEMNNI FAMILY |
| 12.20 | Mr. Saad Sheikh' | Ph.D. Josef Stráský ¹ , Kristína Václavová ¹ , Anna Terynková ¹ , Pavel Zháňať, Jana Šmilauerová ¹ , Jozef Veselý ¹ , Veronika Polyakova ² , Prof. Irina Semenova ² , Prof. Miloš Janeček ¹ | Mr Zhixin Zeng¹, Professor Jin-Chong Tan¹ | Julia Olszewska¹, Prof Anna Fraczkiewicz¹, Dr Jean-Denis Mithieux² |
| | Surface and Microstructure Engineering, Department of Materials and Manufacturing Technology, Chalmers University of Technology, Gothenburg, Sweden, Gothenburg, Sweden | ¹ Charles University , Prague, Czech Republic, ² Ufa State University, Ufa, Russian federation | ¹ University Of Oxford, Oxford, United Kingdom | ¹ Ecole Des Mines De St Etienne, Saint Etienne, France, ² APERAM R&D, Isbergues, France |
| | INFLUENCE OF THE AL CONTENT ON THE COR- ROSION RESISTANCE OF BINARY Fe-AI ALLOYS IN H ₂ SO ₄ | EFFECT OF ULTRAFINE-GRAINED FORMATION AND SUBSEQUENT AGING ON STRUCTURAL, MECHANICAL AND TRIBOLOGICAL PROPERTIES OF Cu-Cr-Zr ALLOY | LARGE ELASTIC RECOVERY OF ZINC DICYANOAURATE | NOVEL Co20Cr15Fe26Mn17Ni22 ULTRA-FINE GRAINED HIGH-ENTROPY ALLOY |
| 12.40 | Dr. Jian Peng¹, Dirk Vogel¹, Martin Palm¹ | Daria Shangina ^{1,2} , Dr. Natalia Bochvar ¹ , Prof. Gencaga Purcek ³ , Harun Yanar ³ , Prof. Sergey Dobatkin ^{1,2} | Ms Chloe Simone Chloe ¹ , Mr Matthew R Ryder ² , Dr Joshua Alfred Hill ¹ , Professor Jin-Chong Tan ² , Professor Andrew Leslie Goodwin ¹ | Michal Mroz ¹ , Anna Fraczkiewicz ¹ |
| | 'Max-planck-institut Für Eisenforschung Gmbh, Düsseldorf, Germany | ¹ A.A. Baikov Institute Of Metallurgy And Materials Science. Russian Academy Of Sciences, Moscow, Russian Federation, ³ National University of Science and Technology 'MISIS', Laboratory of Hybrid Nano- structured Materials, Moscow, Russian Federation, ³ Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey | 'Department of Chemistry. University Of Oxford, Oxford, United Kingdom, 'Department of Engineering Science, University of Oxford, Oxford, United Kingdom | 'Ecole Des Mines De Saint-etienne. Saint-etienne, France |
| | | RADIATION RESISTANCE OF A FeCT MODEL ALLOY NANOSTRUCTURED BY SEVERE PLASTIC DEFORMATION | A THERMODYNAMIC CHARACTERIZATION OF ME- CHANICAL, THERMAL AND ADSORPTION PROPER- TIES OF FLEXIBLE METAL-ORGANIC FRAMEWORKS | |
| 13.00 | | Bertrand Radiguet ¹ , Xavier Sauvage ¹ , Auriane Etienne ¹ , Nariman Enikeev ² , Marina Abramova ² , Yulia Ivanisenko ³ | - <u>Dr. Louis Vanduyfhuys</u> 1, Sven M.J. Rogge ¹ , Jelle | |
| | | University Of Rouen, Saint Etienne du Rouvray, France, ² Ufa State Aviation Technical University, Ufa, Russia, ³ Institute for Nanotechnology, Karlsruhe Institute for Technology, Karlsruhe, Germany | Wieme ¹ , Steven Vandenbrande ¹ , Prof. Michel Wa- roquier ¹ , Prof. Veronique Van Speybroeck ¹ 'Center For Molecular Modeling, Ghent University, | |
| | | | Zwijnaarde, Belgium | |



| Symposium | B9 | B11 | C1 | C4 |
|---------------|---|--|--|--|
| Room | I-08/M1 | Maurice Saltiel Hall III/M2 | Friends of Music Hall/M1 | Conference Room 4/M1 |
| Session Title | Thermodynamics ,MD simulations and Thin Films | Titanium Alloys | Coatings deposition routes and novel characterization techniques 4/5 -Bio-coatings | Additive Manufacturing of metals 2 |
| Chairperson | J. F. Löffler, J. Eckert | Anna Zervaki | R. Cremer, A. R. González-Elipe | Eduard Hryha |
| | KEYNOTE/INVITED THERMODYNAMICS AND KINETICS OF SOME GLASS FORMING MELTS | EFFECT OF B2-AUSTENITE GRAIN SIZE AND AGING TIME ON NANO-STRUCTURING OF TIME, PRECIPITATES AND TRANSFORMATION BEHAVIOR OF THERMOMECHANI- CALLY TREATED TITANIUM NICKELIDE | HIGHLIGHT ZINC AND ZINC-IRON NANOPARTICLES AS OXYGEN SCAVENGERS | MICROSTRUCTURAL HETEROGENEITY ALONG THE BUILDING DIRECTION OF INCONEL 718 PRODUCED BY ELECTRON BEAM MELTING (EBM) |
| 11.00 | Prof. Livio Battezzati ¹ , Dr. Gianluca Fiore ¹ , Dr. Alberto Castellero ¹ , Dr. Giulia Dalla Fontana | Dr Elena Ryklina ¹ . Ph.D. Student Kristina Polyakova ¹ . Professor Sergey Prokoshkin ¹ | Dr. Sebastian Calderon ^{1,2} , Prof. Dr. Paulo Ferreira ^{2,3} , Prof. Dr. Sandra Carvalho ¹ | <u>Dunyong Deng</u> ¹, Professor Johan Moverare¹. Professor Ru Lin Peng¹, Doctor Hans Söderberg² |
| | | "National University Of Science And Technology "misis", Moscow, Russian Federation | 'University of Minho, Department of Physics, Cam- pus of Azurém, 4800-058 Guimarães, Portugal, Guimaraes, Portugal, 'INL- International Iberian Nanotechnology Laboratory, Av. Mestre José Veiga s/n, 4715-330, Braga, Portugal, 'Materials Science and Engineering Program, The University of Texas at Austin, Austin, Texas 78712, USA., Austin, USA | ¹ Linköping University, Linköping, Sweden. ² Sandvik Machining Solutions AB, Sandviken, Sweden |
| | | CONTINUOUS COOLING TRANSFORMATION BEHAVIOR OF Fe CONTAINING TI ALLOY | PLASMA COATING OF BIODEGRADABLE NANOFIBERS TO GENERATE SMART ANTIBACTERIAL SURFACES | PROCESS-INDUCED ALTERATIONS OF HASTELLOY X POWDER SUBJECTED TO SELECTED LASER MELTING (SLM) |
| 11.20 | 'Università di Torino, Torino, Italy | Ph.D Yong-taek Hyun ¹ , Do-Heon Kim ¹ , Ph.D Jong Woo Won ¹ , Dae–Won Jeong ² | Dr. Anton Manakhov¹, Dr. Dmitry Shtansky¹, Ms. Elizaveta Permyakova¹, Dr. Irina Sukhorukova¹, Ms. Eva Kedronova² | Mr Hans Gruber ¹ , Mr Eduard Hryha ¹ , Mr Lars Nyborg ¹ |
| | | ¹ Korea Institute of Materials Science. Changwon, South Korea, ² Dong-A University, Busan, South Korea | ¹ National University of Science and Technology "MISIS", Moscow, Russian Federation, ² Masaryk University, Brno, Czech Republic | 'Chalmers University of Technology, Göteborg, Sweden |
| | COMPETITION BETWEEN METALLIC GLASS AND QUASICRYSTAL FORMATION IN Mg-BASED ALLOYS | STRAIN RATE EFFECT ON THE MICROSTRUCTURES OF CONVENTIONAL AND HARMONIC 8 TITANIUM ALLOYS | CHARACTERIZATION OF WATERBORNE POLYURE- THANE-NANO SILICA COATINGS FOR ICEPHOBIC APPLICATIONS | ADDITIVE MANUFACTURING OF HIGH TEMPERATURE MATERIALS FOR FUSION: A REVIEW OF CURRENT CAPABILITIES AND FUTURE OUTLOOK |
| 11.40 | PhD Güven Kurtuldu ¹ , PhD Karl Shamlaye ¹ , Professor Jörg Löffler ¹ | David Tingaud | M.Sc., Eng., Bartlomiej Przybyszewski 12, PhD. Eng., Rafal Kozera 12, DSc., PhD. Eng., Anna Boczkowska 1,2 | Mr David Hancock ^{1,2} , Dr Mike Curtis-Rouse ¹ , Miss Amanda Field ¹ , Mr David Homfray ¹ , Dr Heather Lew- tas ¹ , Dr Elizabeth Surrey ¹ , Prof. Iain Todd ² , Dr Michael Porton ¹ , Prof. Stewart Williams ² , Prof. Brad Wynne ^{1,2} |
| | "Laboratory of Metal Physics and Technology, Department of Materials, ETH Zürich, Zürich, Switzerland | 'Universite Paris 13, Sorbonne Paris Cite, LSPM-CNRS, Villetaneuse, France, | ¹ Technology Partners Foundation, Warsaw, Poland, ² Warsaw University of Technology, Warsaw, Poland | "Culham Centre for Fusion Energy, Abingdon, United Kingdom, *University of Sheffield Department of Materials Science and Engineering, Sheffield, United Kingdom, *Science and Technologies Facilities Council, Rutherford Appleton Laboratory, Harwell, United Kingdom *University of Birmingham School of Metallurgy and Materials, Birmingham, United Kingdom, *University of Cranfield School of Aerospace, Transport, and Manufacturing, Cranfield, United Kingdom |
| | MICROSTRUCTURAL ALTERATIONS AT EQUILIBRIUM AND UNDER TENSILE DEFORMATION OF A Cu-Zr MODEL GLASS BY MOLECULAR DYNAMICS SIMULATIONS | ELEVATED TEMPERATURE MICRO-TENSILE CHARACTERIZATION OF TITANIUM ALLOYS | PLASMA MICRO-NANOTEXTURED 3D SURFACES AND THEIR APPLICATIONS IN WETTING AND LIFE SCIENCES | PROCESSING AND MATERIAL QUALITY CONSIDER- ATIONS OF AM PRODUCED STEELS FOR TOOLING APPLICATIONS |
| 12.00 | Mr. Pablo A. Palomino Rico ¹ , Prof. Dimitris G. Papa- georgiou ² , Prof. Giorgos A. Evangelakis ¹ | Dr. Salahudin Nimer ¹² , Dr. Richard Everett ² , Prof. Marc Zupan ² | Dr. Kosmas Etlinas', Dr. Katerina Tsougeni', Mrs Anastasia Kanioura', Mrs Dionysia Kefalinou', Dr. Kostas Stamatakis', Dr. Panagiota Petrou', Dr. Angeliki Tserepi', Dr. Sotirios Kakabakos', Dr. Evangelos Gogolides' | Dr. Christos Oikonomou'. Dr. Seshendra Karamchedu', Dr. Johnny Sjöström' |
| | Department of Physics, University of Ioannina, Greece, Department of Materials Science and Engineering, University of Ioannina, Greece | 'Johns Hopkins University Applied Physics Laboratory, Laurel, United States, ² University Of Maryland, Balti- more County, Baltimore, United States | 'NCSR Demokritos, Aghia Paraskevi, Greece | 'Uddeholms AB, Hagfors, Sweden |
| | EFFECT OF CHEMICAL BONDING BETWEEN ALLOYING ELEMENTS ON THE SHORT- AND MEDIUM-RANGE ORDER IN METALLIC GLASSES | IDENTIFICATION OF RELATIONSHIPS BETWEEN HEAT TREATMENT AND FATIGUE CRACK GROWTH OF AB TITANIUMS ALLOYS | SUBLIMATING DRY ICE COATINGS AS A MEANS FOR CONTACTLESS MANIPULATION OF LIQUIDS | INFLUENCE OF HIP ON MICROSTRUCTURE, AND PROPERTIES OF H13 TOOL STEEL MANUFACTURED BY SLM |
| 12.20 | <u>Dr Masato Shimono</u> ¹, Dr Hidehiro Onodera¹ | Vincent Renon ¹² , Pr Gilbert Henaff ² , Dr Céline Lari- gnon ¹ , Dr Simon Perusin ¹ , Pr Patrick Villechaise ² | Dr Athanasios Milionis ¹ , Dr Carlo Antonini ^{1,2} , Dr Stefan Jung ¹ , Mr Anders Nelson ¹ , Dr Thomas Schutzius ¹ , Prof. Dimos Poulikakos ¹ | Mikaet Åsberg¹, Gunnel Fredriksson¹, PhD Wendy Fredriksson², PhD Sepehr Hatami³, Pavel Krakhmalev¹ |
| | 'National Institute for Materials Science, Tsukuba, Japan | ¹ Irt Saint Exupery, Toulouse, France, ² Institut P', Chasseneuil du Poitou, France | ¹ ETH Zurich, Zurich, Switzerland, ² Empa, Dubendorf, Switzerland | ¹ Karlstad University, Karlstad, Sweden, ² Bodycote Hat Isostatic Pressing AB, Sweden, ² Swerea IVF AB, Sweden |
| | AMORPHOUS/AMORPHOUS METALLIC MULTILAYERS | THE ASSESSMENT OF THE ROOM TEMPERATURE FORMABILITY LIMITS USING DIC TECHNIQUES | ANODICALLY ELECTRODEPOSITED Pb-Co-Sn COATINGS AS ELECTROCATALYST FOR OXYGEN EVOLUTION REACTION | INVESTIGATION OF THE IN-SITU ELABORATION OF ALLOYS BY SELECTIVE LASER MELTING OF MIXED ELEMENTAL POWDERS: APPLICATION TO A TI-24(AT.%)NB ALLOY |
| 12.40 | Dr. Florian Spieckermann ¹ , Dr. Marlene Mühlbacher ¹ , Dr. Thomas Schöberl ² , Dr. Christoph Gammer ² , Prof. Dr. Christian Mitterer ³ , Prof. Dr. Jürgen Eckert ^{1,2} | <u>Dr. Evgenia Yakushina</u> ¹, Dr. Nicola Zuelli¹, Dr. Paul Blackwell¹ | <u>Dr Claudia Carrasco</u> ¹, Marisol Maril¹, Pablo Tobosque¹, Dr Carlos Camurri¹ | Marie Fischer ^{1,3} Laurent Peltier ^{2,3} , Gael Le Coz ^{1,3} , Pascal Laheurte ^{1,3} |
| | "Department of Materials Physics, Montanuniversität Leoben, Leoben, Austria, 'Erich Schmid Institute for Materials Science, Austrian Academy of Sciences, Leoben, Austria, 'Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Leoben, Austria | 'Advanced Forming Research Centre, University Of Strathclyde, Renfrew, United Kingdom | 'Universidad De Concepcion, Concepcion, Chile | "Universite De Lorraine, Metz, France, ² Arts et Metiers, Metz, France, ³ LEM3, Metz, France |
| | | | IMPACT OF SOLVENT COMPOSITION ON FORMATION OF PEMFC ELECTRODE LAYERS | |
| 13.00 | | | Eva Hoffmann', Daniela Fischer', Martin Thoma', Dr. Cornelia Damm', Prof. Dr. Wolfgang Peukert' "University Erlangen Nuremberg, Erlangen, Germany | |



| Symposium | C8 | C9 | C10 | C11 |
|---------------|---|--|---|---|
| Room | Library Hall/M2 | Conference Room 3/M1 | F 319/M1 | MOYSA Hall/M2 |
| Session Title | Ferrous Alloys and Steels | Material removal processes I | Microstructure formation and mechanically driven transformation | Silicon Materials and Devices |
| Chairperson | Jan Jezierski, Hongwei Zhang | Luca Settineri | B. Straumal, X. Sauvage | Dimitris Tsoukalas |
| | PREDICTION OF INFLUENCES OF ALLOY ELEMENTS ON SOLIDIFICATION AND PRECIPITATION BEHAVIOR OF HIGH SPEED STEELS | KEYNOTE/INVITED EFFECT OF MICRO-BLASTING ON THE WEAR BEHAVIOUR OF ARC-PVD COATED TOOLS | HIGHLIGHT HIGH-PRESSURE TORSION INDUCED TRANSFORMATIONS IN TI-BASED ALLOYS | THE MOLECULAR MONOLAYER DOPING: A CONFORMAL AND COST-EFFECTIVE APPROACH FOR NANOELECTRONICS |
| 11.00 | Dr Hongwei Zhang ¹² , Dr Keiji Nakajima ³ , Miss Mengmeng Su ¹² , Dr Hiroyuki Shibata ⁴ , Dr Jicheng He ¹² | | Askar Kilmametov ¹ , Yulia Ivanisenko ¹ , Boris Straumal ^{1,2} , Andrey Mazilkin ^{1,2} , Mario Kriegel ³ , Olga Fabrichnaya ³ , David Rafaja ³ , Horst Hahn ¹ | Sebastiano Caccamo ¹ , Dr. Antonino La Magna ¹ , Dr. Rosaria A. Puglisi ¹ |
| | 'Northeastern University, Key Laboratory of Electromagnetic Processing of Materials, Shenyang, China, 'Northeastern University, School of Metallurgy, Shenyang, China, 'KTH Royal Institute of Technology, Department of Materials Science and Engineering, Stockholm, Sweden, 'Tohoku University, Institute of Multidisciplinary Research for Advanced Materials, Sendai, Japan | Assist Prof. DrEng. Georgios Skordaris ¹ , Prof. Dring. Habil., Dring. Eh., Dr.h.c., Konstantinos-Dionysios. Bouzakis ¹ , Dipl.Eng., MSc Paschalis Charalampous ¹ , Dipl. Eng. Tilemachos Kotsanis ¹ , Dring. Emmanouil Bouzakis ² | ¹ Karlsruhe Institute of Technology (KIT), Institute of Nanotechnology, 76344 Eggenstein-Leopoldshafen, Germany, ¹ Institute of Solid State Physics, Russian Academy of Sciences, 142432, Chemogolowka, Russia, ³ TU Bergakademie Freiberg, Institute of Materials Science, 09599 Freiberg, Germany | 'CNR - IMM, Catania, Italy |
| | CHARACTERIZATION OF NON-METALLIC INCLUSIONS OBTAINED IN STEEL PROCESSED WITH DIFFERENT CRUCIBLE MATERIALS | | HIGHLIGHT FORMATION OF THE Q PHASE IN TI—Fe ALLOYS AND ITS STABILITY AFTER HIGH-PRESSURE TORSION | HIGHLIGHT SELF-ASSEMBLY OF SINGLE SI QUANTUM DOTS IN SIO2 FOR SINGLE ELECTRON TRANSISTORS |
| 11.20 | Johannes Gleinig¹, Tim Lippmann¹, Anja Weidner¹, Horst Biermann¹ | ¹ Aristotle University of Thessaloniki. Thessaloniki. Greece, ² German University of Technology in Oman (GUlech), Department of Engineering, Sultanate of Oman | Dr. M.J. Kriegel ¹ , Dr. A.R. Kilmametov ^{3,4} , Dr. V. Klemm ¹ , A.A. Mazilkin ^{2,3} , Dr. O. Fabrichnaya ¹ , Prof. B.B. Straumal ^{2,3} , Dr. J. Ivanisenko ³ , Prof. H. Hahn ³ , Prof. D. Rafaja ¹ | Dr. Karl-Heinz Heinig', Dr. Karl-Heinz Stegemann², Xiaomo Xu', Thomas Pruefer', Dr. Daniel Wolf', Dr. Gregor Hlawacek', Prof. Wolthardt Moeller', Dr. Johannes von Borany' |
| | 'Institute of Materials Engineering. Technical University of Freiberg, Freiberg, Germany | | ¹ TU Bergakademie Freiberg, Institute of Materials Science, Freiberg, Germany, ² Institute of Solid State Physics, Russian Academy of Sciences, Chernogalovka, Russia, ³ Karlsruhe Institute of Technology, Institute of Nanotechnology, Karlsruhe, Germany, ⁴ Institute of Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa, Russia | 'Helmholtz-Center Dresden-Rossendorf HZDR, Dresden, Germany, ² XFAB GmbH, Dresden, Germany |
| | MARTENSITIC STAINLESS STEEL WITH ULTRAFINE MICROSTRUCTURE PRODUZCED BY SELECTIVE LASER MELTING IN DIFFERENT ATMOSPHERES | EFFECT OF CUTTING CONDITIONS ON MACHINABIL- ITY OF AD 730(TM) DURING HIGH SPEED TURNING WITH PCBN TOOLS | MICROSTRUCTURAL EVOLUTION AND DEFORMATION BEHAVIOR OF IMMISCIBLE Fe-Cu-Ag ALLOYS PROCESSED BY HIGH-PRESSURE TORSION | ELECTRICAL CHARACTERIZATION OF SI NANOCRYS- TAL DEVICES SUITABLE FOR RT-SET OPERATION |
| 11.40 | Kamran Saeidi [†] : Farnoosh Forouzan ² , Frank Lofaj ³ , Zhijjan Shen [†] *Department of Materials and Environmental Chem- | Mr. Zhe Chen ¹ , Dr. Ru Peng Lin ¹ , Dr. Jinming Zhou ² , Dr. Volodymyr Bushlya ² , Dr. Rachid M'Saoubi ³ , Dr. Sten Johansson ¹ , Dr. Johan Moverare ¹ | Andrea Bachmaier ¹ , Jörg Schmauch ² , Andreas Verch ³ , Reinhard Pippan ¹ | Dr. Matteo Belli¹, Mario Alia¹, Dr. Xiaomo Xu², Dr. Cyrille Laviron¹, Dr. Ahmed Gharbi¹, Dr. Mathias Rommel⁴, Dr. Florian Stumpf³, Dr. Thomas Prüfer³, Dr. Daniel Wolf², Dr. Lothar Bischoff³, Dr. Rene Hübner², Dr. Gregor Hlawacek², Dr. Stefan Facsko², Dr. Kart-Heinz Heinig³, Dr. Johannes von Borany², Prof. Marco Fanciull⁵¹ |
| | istry, Arrhenius Laboratory, Stockholm University, Stockholm, Sweden, *Lulea University of Technology, Department of Engineering sciences and Mathematics, Division of Materials Science, Lulea, Sweden, *Institute of Materials Research of the Slovak Academy of Sciences, Košice, Slovakia | Division of Engineering Materials, Linköping University, Linköping, Sweden, "Division of Production and Materials Engineering, Lund University, Lund, Sweden, "Seco Tools AB, Fagersta, Sweden | ¹ Erich Schmid Institute of Materials Science, Leoben, Austria, ¹ Experimentalphysik, Saarland University, Saarbrücken, Germany, ¹ IMM-Leibniz Institute for New Materials, Saarbrücken, Germany | 'CNR-IMM, Sede di Agrate Brianza, Agrate Brianza, Italy, 'HZDR, Dresden, Germany, 'CEA-LETI, Grenoble, France, 'Fraunhafer-IISB, Erlangen, Germany, 'University of Milano-Bicocca, Department of Materials Science, Milano, Italy |
| 12.00 - 13.00 | Session Title: Aluminium Alloys - I Chairpersons: Gokhan Orhan, Alexander E. Karantzalis CORRELATION BETWEEN MELT QUALITY, SOLIDIFI- | DRILLING OF ZINC WROUGHT ALLOYS | SHEAR INDUCED SOLID STATE JOINING OF DISSIMILAR TI ALLOYS | ON THE USE OF THIN TRAPPING LAYERS TO LOCALIZE HYDROGEN PRECIPITATION AND TO FRACTURE SILICON USING THE SMART CUT PROCESS |
| | CATION RANGE AND HOT TEARING OF AI-Si ALLOYS Muhammet Uludag ¹ , Remzi Cetin ² , Derya Dispinar ³ | Prof. DrIng. DrIng. E. h. Dr. h. c. Dr. h. c. Fritz Klocke ¹ , DrIng. DiplWirtIng. Benjamin Döbbeler ¹ , Stefan Baier ¹ | Dr. Anibal Mendes¹, Dr. Rimma Lapovok¹, Dr. Ilana Timokhina¹, Dr. Andrey Molotnikov², Dr. Lee Semiatin³ | Dr Alain Claverie ¹ , Dr Frederic Mazen ² , Dr Aurélie Royal ^{1,2} |
| 12.00 | ¹ Bursa Technical University, ² Halic University, ³ Istanbul University | WZL of RWTH Aachen University, Aachen, Germany | ¹/FM-Deakin University, Melbourne, Australia, ²Monash University, Melbourne, Australia, ³Air Force Research Laboratory - Wright-Patterson Air Force Base, Wright-Patterson AFB, USA | ¹ Cemes Cnrs. Toulouse, France, ² Léti-CEA, Grenoble, France |
| | CHANGE IN POROSITY OF A356 BY INCREASED HOLDING TIME OF THE LIQUID | HIGHLIGHT EFFECT OF PVD COATING'S MECHANICAL PROPERTIES AND ADHESION ON THE MILLING PERFORMANCE OF COATED CEMENTED CARBIDE INSERTS | ROLE OF PHASE AND STRUCTURE TRANSFORMATIONS TO OBTAIN LOW MODULUS TITANIUM ALLOYS | LOW-TEMPERATURE MICROWAVE-BASED PLASMA OXIDATION AND NITRIDATION OF GERMANIUM AND SILICON |
| 12.20 | Muhammet Uludag', <u>Lokman Gemi</u> ². Remzi Cetin², Derya Dispinar ⁴ | Assist. Prof. DrEng. Georgios Skordaris', <u>Prof. Dring. Habil.</u> , <u>Dring. E.h., DrkKonstanti-nos-Dionysios Bouzakis'</u> , Dipl Eng. MSc Paschalis Charatampous', Dipl. Eng. Tilemachos Kotsanis', Dr. Roland Bejjani' | Mikhail Petrzhik ¹ | Dr. Wilfried Lerch ¹ |
| | 1Bursa Technical University, 2Necmettin Erbakan University, 3Halic University, 4Istanbul University | ¹ Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Sandvik Coromant, Sweden | 'National University of Science & Technology, Moscow, Russia | [†] Centrotherm Photovoltaics AG, Blaubeuren, Germany |
| | MEASUREMENT OF FLUIDITY OF A356 BY NOVEL OCTOPODS MOULD DESIGN | | | XPS ANALYSIS OF METAL/OXIDE PILE AND COR- RELATION BETWEEN BINDING ENERGY SHIFT AND PHYSICAL-CHEMICAL EFFECTS DUE TO DIFFERENT ANNEALING PROCESSES |
| 12.40 | <u>Murat Colak</u> ¹ , Derya Dispinar ² | | | Charly Fontaine ¹² , Bernard Pelissier ² , Mickaël Gros-Jean ¹ , Thierry Chevolleau ² |
| | Bayburt University, ² Istanbul University | | | 'Stmicroelectronics, Crolles, France, 'Laboratoire des technologies de la microélectronique (LTM), Grenoble, France |
| | | | | |

EUROMAT2017 11<u>5</u>



| Symposium | D1 | D2 | D3 | D8 |
|---------------|---|--|--|---|
| Room | Artist Café/M1 | Museum Hall /M2 | I-15/M1 | I -16/M1 |
| Session Title | Time-Resolved Studies | Advanced Microscopy Methods | Structural and mechanical properties II | Ab initio free energy calculations |
| Chairperson | Federico Boscherini, Jozef Keckes | Giovanni Bertoni | Sotirios Ves | Andrew Horsfield |
| | KEYNOTE/INVITED REVEALING MULTISCALE PHOTOSWITCHING PROCESSES IN SPIN-CROSSOVER MOLECULAR MATERIALS WITH ULTRAFAST X-RAY SCIENCE | HIGHLIGHT IDENTIFICATION OF ORIENTATION RELATIONSHIPS IN STRUCTURAL MATERIALS USING NEO-EULERIAN MAPPING | HIGHLIGHT STRAIN EFFECTS IN TWO-DIMENSIONAL MoS2 AND WS2 CRYSTALS | KEYNOTE/INVITED FREE ENERGY OF DEFECTS IN BODY CENTERED- CUBIC METALS: THEORY AND EXPERIMENTAL VALIDATION |
| 11.00 | | <u>Dr Robert Krakow</u> *, Dr Robbie J Bennett', Mr Duncan N Johnstone ¹ , Prof Paul AM Midgley ¹ , Prof Catherine MF Rae ¹ | Dr Dimitrios Anestopoulos ¹ , Dr Spyridon Gramma- tikopoulos ¹ , Dr George Anagnostopoulos ¹ , Prof Costas Galiois ^{1,2} , Dr John Parthenios ¹ , <u>Prof Konstantinos</u> <u>Papagelis^{1,3}</u> | |
| | Prof. Eric Collet ¹ | ¹ University of Cambridge, Department of Materials, Cambridge, United Kingdom | Foundation of Research and Technology Hellas, Insti- tute of Chemical Engineering and High Temperature Processes, P.O. Box 1414, GR-26504, Rio, Greece, *Department of Chemical Engineering, University of Patras, 26504, Rio, Greece, 3Department of Physics, University of Patras, 26504, Rio, Greece | <u>Dr. Mihai-Cosmin Marinica</u> ¹ |
| | ¹ University Rennes 1/ CNRS, Rennes, France | OBSERVATION OF DISLOCATIONS IN SCANNING ELECTRON MICROSCOPE | ANISOTROPY AND POISSON'S RATIO OF MgO AT HIGH TEMPERATURES AND AT HIGH PRESSURES | ¹Cea, Den, Service De Recherches De Métallurgie |
| 11.20 | onersily remes in ones, remes, it unce | <u>Di Wan</u> ¹ , Prof. DrIng. Habil. Afrooz Barnoush ¹ | Professor Thomas Duffy ¹ , <u>Professor Ilias Zouboulis²</u> | Physique, F-91191 Gif-sur-Yvette, France |
| | | ¹ Department of Mechanical and Industrial Engineering. Norwegian University of Science and Technology, Trondheim, Norway | ¹ Princeton University-Department of Geosciences, Princeton, U.S.A., ² National Technical University of Athens-Department of Physics, Zografou/Athens, Greece | |
| | IN SITU SAXS REGISTRATION WITH NANOSECOND TIME RESOLUTION | TRANSMISSION ELECTRON BACKSCATTER Diffraction for thin film Characterization | COMBINED X-RAY DIFFRACTION AND MICRO-TO- MOGRAPHY UNDER HIGH PRESSURE AND HIGH TEMPERATURE ON THE PSICHÉ BEAMLINE OF SOLEIL | LATTICE DYNAMICS IN HIGH ENTROPY ALLOYS: UNDERSTANDING THE ROLE OF FLUCTUATIONS |
| 11.40 | Dr Konstantin Ten ¹⁴ , Dr Edward Pruuel ¹⁴ , Dr Alexey Kashkarov ¹⁴ , Dr Lev Shechtman ²⁴ , Dr Vladimir Zhulanov ²⁴ , Dr Boris Tolochko ³ , student Ivan Rubtsov ⁴ | Dr. Mikhail Polyakov ¹ , Dr. Johann Michler ¹ , <u>Dr. Xavier Maeder</u> ¹ | Dr. Jean-Paul Itie!, Dr Nicolas Guignot Guignot', Dr Andrew King', Dr Eglantine Boulard', Dr Yann LeGodec ² , Dr Guillaume Morard', Dr Kisha Clark ² , Dr Julien Philippe ² , Dr Jean-Philippe Périllat ³ | Dr. Biswanath Dutta ¹ , Dr. Raina J. Olsen ^{2,3} , Dr. Sai Mu ² , Dr. Tilmann Hickel ¹ , Dr. German D. Samolyuk ² , Dr. El- iot D. Spech ¹ , Dr. Hongbin Bei ² , Dr. Lucas R. Lindsay ² , Prof. Jörg Neugebauer ¹ , Prof. Malcolm Stocks ² , Prof. Bennett C. Larson ² |
| | ¹ LIH SB RAS, Novosibirsk. Russian Federation, ² BINP SB RAS, Novosibirsk Russian Federation, ³ ISSCM SB RAS, Novosibirsk. Russian Federation, ⁴ NSU, Novosibirsk. Russian Federation | [†] Empa, Thun, Switzerland | ¹ Synchrotron Soleil. L'orme Des Merisiers. Bp 48 Gif Sur Yvette, France. ² IMPMC, Paris, France, ² Laboratoire de Géologie de Lyon, Lyon, France | ¹ Max-Planck-Institut Für Eisenforschung GmbH, Düsseldorf (40237, Germany, ³ Materials Science and Technology Division. Oak Ridge National Laboratory, Oak Ridge. USA, ³ U.S. Army Research Laboratory, Adelphi, MD 20783, USA |
| | IN SITU REAL TIME FAR FIELD IMAGING OF THE (200) X-RAY DIFFRACTION PEAK OF A SINGLE CRYS- TAL SUPERALLOY DURING A HIGH TEMPERATURE CREEP TEST | COMPREHENSIVE CHARACTERIZATION OF STRUCTURAL AND FUNCTIONAL SURFACE PROPERTIES | EXPLORING THE MECHANICAL BEHAVIOR OF FLEX- IBLE AND RIGID METAL ORGANIC FRAMEWORKS (MOF) MATERIALS USING COUPLED SYNCHROTRON LIGHT AT HIGH PRESSURE AND MOLECULAR SIMULATION | INCLUSION OF ANHARMONIC THERMAL EFFECTS ON ELASTIC AND THERMODYNAMIC PROPERTIES OF SOLIDS WITH AB INITIO CALCULATIONS |
| 12.00 | Thomas Schenk ^{1,2,6} , Roxane Trehorel ² , Gabor Ribarik ^{4,6} , Alain Jacques ^{1,2,6} , Pierre Bastie ⁵ | <u>Nadja Felde</u> ¹² , Luisa Coriand ¹ , Sven Schröder ¹ , Andreas Tünnermann ^{1,2} | Dr. Pascal G. Yot ¹ , Dr. Christian Serre ² , Dr. Vladimir Dmitriev ³ , Dr. Jean-Paul Itiè ⁴ , Pr. Guillaume Maurin ¹ | Ph.D. Alessandro Erba¹ |
| | "CNRS, Nancy, France, *JJL, Nancy, France, *JUniversité de Lorraine, Nancy, France, * Eötvös Loránd University, Budapest, Hungary, *LiPhy, Grenoble, France, *Labex DAMAS , Metz, France | Fraunhofer Institute for Applied Optics and Precision Engineering, Jena, Germany, Friedrich-Schiller-Uni- versity, Institute of Applied Physics, Jena, Germany | University of Montpellier, Montpellier, France, 'Ecole Nationale Superieur de Paris, Paris, France, 'European Synchrotron Radiation Facility, Grenoble, France, 'Synchrotron Soleil, Saint-Aubin, France | 'Università Degli Studi Di Torino, Torino, Italy |
| | IN-SITU SYNCHROTRON X-RAY DIFFRACTION STUD- IES ON SOLID-STATE PHASE TRANSFORMATIONS OF AN ADVANCED HIGH STRENGTH STEEL | CORRECTING SAMPLE DRIFT USING FOURIER HARMONICS | IN-SITU PROBES OF GRANULAR MEDIA VIA X-RAY ANALYSIS TO ADVANCE PREDICTIVE MODELS | THERMODYNAMIC MODELING OF σ-FeCr AND ITS EXTENSION INTO MULTICOMPONENT SYSTEMS ASSISTED BY DFT CALCULATIONS |
| 12.20 | Ms. Parisa Eftekharimilan ¹ , Mr. Richard Huizenga ¹ , Dr. Marcel Hermans ¹ , Prof. lan Richardson ¹ | Mr. G. Bárcena-González ¹ , Mrs MP Guerrero-Leb- rero ¹ , Mrs E. Guerrero ¹ , Mr DF. Reyes ² , Mrs SB. Lagomazzini ¹ , Mr A. Yañez ¹ , Mr J. Pizarro ¹ , Mr D. González ² , Mr PL. Galindo ¹ | Ryan Crum ¹ , Minta Akin ¹ , Eric Herbold ¹ , Jon Lind ¹ , Michael Homel ¹ , Ryan Hurley ¹ | <u>Dr. Rer. Nat. Aurélie Jacob¹</u> , Dr. rer. nat. Erwin Povoden-Karadeniz¹, Prof. Ernst Kozeschnik¹ |
| | 'Delft University of Technology, Delft, Netherlands | ¹ Department of Computer Science and Engineer- ing, University Of Cádiz, Cádiz, Spain, ² Department of Material Science and Metallurgy Engineering and Inorganic Chemistry, University of Cádiz, Cádiz, Spain | 'Lawrence Livermore National Laboratory, Livermore, USA | 'TU Wien - Institute for Materials Science and -Technology, Vienna, Austria |
| | TIME RESOLVED X-RAY TOMOGRAPHY AND IMAGING FOR MATERIALS PROCESSING | COMPUTATIONAL NANOMETROLOGY FOR THE CHARACTERIZATION OF NANOSTRUCTURE MORPHOLOGIES: ACCURACY AND COMPLEXITY ISSUES | | ATOMIC-SCALE MODELING OF Fe-Al-Mn-C ALLOYS USING PAIR MODELS AND THERMODYNAMIC CALCULATIONS |
| 12.40 | Dr Robert C. Atwood ¹² , Dr. Nicola Wadeson ¹ , Mr. Chu Lun Alex Leung ²³ , Dr. Mohammed A. Azeem ²³ , Dr. Daniil Kazantsev ²³ , Prof. Peter D. Lee ²³ | Dr Vassilis Constantoudis ¹³ , Mr. George Papavieros ¹²³ Mr. Manolis Chatzigeorgiou ¹ , Dr. Kosmas Ellinas ¹⁴ , Dr. Katerina Tsougeni ¹⁴ , Dr. Evangelos Gogolides ¹³⁴ | | Dr Alexandre Legris ¹ , Jérôme Dequeker ¹ , <u>Dr Rêmy Besson</u> ¹ , Dr Ludovic Thuinet ¹ |
| | ¹ Diamond Light Source, Didcot, United Kingdom, ³ Man- chester X-ray Imaging Facility, Research Complex at Harwell, Didcot, United Kingdom, ³ School of Materials, University of Manchester, Manchester, United Kingdom | ¹ N.C.S.R. Demokritos , Athens , Greece, ² Department of Physics, Aristalle University of Thessaloniki. Thessaloniki, Greece, ³ Nanometrisis P.C., Athens/Aghia Paraskeui, Greece, ⁴ Nanoplasmas P.C., Athens/Aghia Paraskeui, Greece | | ¹ Univ. Lille, CNRS, INRA, ENSCL, UMR 8207 - UMET - Unité Matériaux et Transformations, F-59000 Lille, France, Umet, Cité Scientifique, Avenue Paul Langevin, Bât Cé, France |
| | | | | HIGH-TEMPERATURE DFT CALCULATIONS OF SUB-STOCHIOMETRIC ZrC |
| 13.00 | | | | <u>Dr Thomas Mellan¹</u> , Dr Andrew Duff², Prof. Mike Finnis² |
| 14.00 | | | | Department of Materials, Thomas Young Centre, Imperial College London, Exhibition Road, London SW7 2AZ, UK, ² Hartree Centre, STFC Daresbury Laboratory, Scientific Computing Department, Warrington WA44AD, UK, ² Department of Materials and Department of Phys- ics, Thomas Young Centre, Imperial College London, Exhibition Road, London SW7 2AZ, UK |
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| iymposium | D10 | E4 | E6 | F3 |
|--------------|--|---|--|--|
| Room | CR II Hall/M2 | Conference Room 2/M1 | Maurice Saltiel Hall II/M2 | 3-21/M1 |
| ession Title | Fluids I | Steels and alloys | Hybrid materials and Fibre reinforced plastics | Nanobiomaterials and nanotechnology for implan devices and theranostics II |
| hairperson | Serafeim Kalliadasis, Fathollah Varnik | Annette Heinzel | Dirk Lehmhus | Isabel Izquierdo Barba |
| | KEYNOTE/INVITED UPSCALED PHASE-FIELD EQUATIONS FOR INTER-FACIAL DYNAMICS IN STRONGLY HETEROGENEOUS MEDIA | SINGULARITIES OF TENSILE BEHAVIOR OF ADVANCED AUSTENITIC STEELS OBTAINED BY DIFFERENT COLD PROCESSES | KEYNOTE/INVITED AUTOMATED COMPOSITES MANUFACTURING AND 4D PRINTING OF COMPOSITES | KEYNOTE/INVITED MULTIFUNCTIONAL MESOPOROUS NANOPARTICL CONTROLLING CELL BEHAVIOR |
| 11.00 | | Dr Patrick OLIER ¹ , Dr Laurine COURTIN ¹ , Emilien CURTET ¹ , Dr Bouzid KEDJAR ² , Pf Ludovic THILLY ² | | |
| | Dr. Markus Schmuck ¹ | ¹ DEN-Service de Recherches Métallurgiques Appliquées, CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France, ¹ Institut Pprime, UPR 3346 — CNRS/University of Poitiers/ISAE-ENSMA, 86962, Futuroscope Chasseneuil Cedex, France | Prof. Suong Van Hoa | Prof. Thomas Bein |
| | | HIGH TEMPERATURE MECHANICAL BEHAVIOR OF WC-Cu THERMAL BARRIERS FOR FUSION APPLICATIONS | | |
| 11.20 | | Miss Elena Tejado¹, M. Dias², F. Guerreiro², J.B. Correia³, T. Palacios¹, P.A. Carvalho²⁴, E. Alves², J.Y. Pastor¹ | | |
| | Maxwell Institute for Mathematical Sciences and Heriot-Watt University, Edinburgh, United Kingdom | ¹ Dpto. Ciencia de Materiales-CIME, Universidad Politécnica de Madrid, Madrid, Spain, ² Instituto de Plasmas e Fusão Nuclear, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal, ³ LNEG, Laboratório Nacional de Energia e Geolo- gia, Lisboa, Portugal, *CEFEMA, Instituto Superior Técnico, Lisboa, Portugal | Concordia University, Montreal, Canada | Department of Chemistry, Nanosystems Iniliative Munich (NIM) and Center for Nano Science (CeNS), University of Munich (LMU), (LMU), Butenandistr. 11 81377, Munich, Germany |
| | HIGHLIGHT MULTISCALE SIMULATIONS WITH SMOOTHED DISSIPATIVE PARTICLES DYNAMICS | DISSOLUTION CORROSION BEHAVIOR OF 316L AUSTENITIC STAINLESS STEELS IN STATIC LBE: THE IMPORTANCE OF THE STEEL MICROSTRUCTURE AND THERMOMECHANICAL STATE | THERMAL CYCLING OF HEATED FIBRE METAL LAMINATES | SELF-IMMOLATIVE POLYMERS: A NEW CONCEPT OF GATEKEEPERS FOR MESOPOROUS SILICA NANOPARTICLES |
| 11.40 | <u>Gérôme Faure</u> ¹ , Jean-Bernard Maillet ¹ , Gabriel Stoltz ² | <u>Dr Konstantina Lambrinou</u> ¹ | Dr.ir. Michiel Hagenbeek¹ | Dr Miguel Manzano ^{1,2} , Mr Miguel Gisbert-Garzarán ^{1,2} , Prof. María Vallet-Regí ^{1,2} |
| 11.40 | ¹ CEA, Paris, France, ² CERMICS, Paris, France | 'SCK-CEN, Boeretang 200, Belgium | ¹ Delft University Of Technology, Delft, Netherlands | ¹Dpto. Química Inorgánica y Bioinorgánica, Uni versidad Complutense de Madrid, Instituto de I vestigación Sanitaria Hospital 12 de Octubrei+ Madrid, Spain, ¹Networking Research Center or Bioengineering, Biomaterials and Nanomedicii (CIBER-BBN), Madrid, Spain |
| | LINKING MD SIMULATIONS TO PHASE-FIELD MODELING TO ANALYZE SOLID-LIQUID INTERFACE EFFECTS ON THE GROWTH KINETICS | IMPACT OF ULTRA HIGH PRESSURE WATER JETTING ON AUSTENITIC STAINLESS STEEL FOR NUCLEAR DECONTAMINATION | ADVANCED HYBRID ENGINEERING MATERIALS - METHODS FOR ANALYSING COMPLEX FAILURE MECHANISMS | POLYMERIZATION OF CATECHOLS WITH AMMONI A SUCCESFUL APPROACH FOR BIOCOMPATIBLE POLYDOPAMINE-LIKE COATINGS IN HEALTH |
| | Dr. Mohammed Guerdane ¹ | Mrs Irina Nedyalkova P. ¹ , Dr Dirk Engelberg L. ² , Mr Alex Jenkins ³ , Dr Gareth Law T.W. ¹ | <u>Dr. Axel von Hehl</u> ¹ , Arne Kunze ¹ , Dr. Jens Schumacher ¹ | Prof. Daniel Ruiz Molina |
| 12.00 | ¹ Karlsruhe Institute of Technology, Karlsruhe, Germany | 'Centre for Radiochemistry Research, School of Chemistry, The University Of Manchester, Oxford Road, M13 PPL, Manchester, United Kingdom, 'Corrosion and Protection Centre, Scholl of Materials, The University of Manchester, Sackville Street, M13 PPI, Manchester, United Kingdom, 'Decontamination Centre of Expertise, B582 Ground Floor North, Sellafield Ltd, CA20 IPG, Sellafield, United Kingdom | ¹ IWT Stiftung Institut für Werkstofftechnik. Bremen, Germany | ¹Icn2. Campus UAB, 08193, Bellaterra, Spain |
| | DIFFUSE INTERFACE MODELS OF SOLIDIFICATION IN THE PRESENCE OF HYDRODYNAMIC TRANSPORT: THE THIN INTERFACE ASYMPTOTIC | INDUSTRIAL NITRIDE HARDENING OF EUROFER97 FOR IMPROVED FATIGUE LIFETIME | DEVELOPMENT AND MATURATION OF NEW ENVI- RONMENTALLY FRIENDLY AERONAUTICAL PROCESS TECHNOLOGIES WITHIN THE FRAME OF CLEAN SKY1 AND CLEAN SKY2 PROGRAMS | HYBRID CORE-SHELL GOLD NANOSHELL/SILICA NANOMATERIALS: SOL-GEL SYNTHESIS AND CHARACTERIZATION OF INTERFACES |
| 12.20 | Prof. Dr. Fathollah Varnik ¹ , M.Sc. Amol Subhedar ¹ , Prof. Dr. Ingo Steinbach ¹ | Dr. Jan Hoffmann', Michael Seitz', Dr. Michael Rieth', Patrick Margraf', Dr. Robin Senn', Dr. Michael Klimen- kov', Rainer Lindau', Siegfried Baumgärtner', Ute Jäntsch, Dr. Peter Franke', Prof. Dr. Anton Möslang' | Dr. Alexandra Karanika ¹ , Dr. Dimitrios Grimanelis ¹ , Dr. Roubini Marini ¹ , Mr Konstantinos Mousoutzanis ¹ | Dr. Joachim Allouche', Dr. Samantha Soulé', Dr. Jean-Charles Dupin', Dr. Anne-laure Bulteau', Dr. Stéphane Faucher', Pr. Gaëtane Lespes', Jean-Bernard Ledeuil', Arnaud Uharl', Dr. Carole Aimé', Bernard Haye', Dr. Thibaud Coradin', Pr. Hervé Martinez' |
| | 'ICAMS, Ruhr-University Bochum | 'Karlsruhe Institute For Technology (KIT), Eggenstein-Leopoldshafen, Germany, 'Gerster AG, Egerkingen, Switzerland | 'Hellenic Aerospace Industry S.A., GR-32009 Schimatari , Greece | "Institut des Sciences Analytiques et de Physico-ch pour l'Environnement et les Matériaux (IPREM) UM 5254 CNRS/Université de Pau et des Pays et êl-Xie (UPPA), Pau, France, 'Laboratoire de Chimie de la Matiere Condensée de Paris (ICMCP), Sorbonne Universités, UPMC Univ Paris (B. CNRS, Paris, Fran |
| | DISCRETE MULTIPHYSICS: A HYBRID MODELLING TECHNIQUE COMBINING SMOOTH PARTICLE HYDRODYNAMICS, COARSE-GRAINED MOLECULAR DYNAMICS AND THE DISCRETE ELEMENT METHOD | IN-SITU, TIME DEPENDENT STUDY OF URANIUM ENCAPSULATED IN GROUT | WELDABLE METALLIC FORCE TRANSMISSION ELEMENTS IN FIBRE REINFORCED THERMOPLASTICS | MULTIFUNCTIONAL CORE-SHELL NANOPARTICL FOR TREATMENT OF OVARIAN CANCER |
| | Dr Alessio Alexiadis¹ | <u>Dr Camilla Stitt</u> ', Mr C Paraskevoulakos', Dr N J Harker', Mr A Banos', Dr K R Hallam', Dr C P Jones', Professor T B Scott ⁱ | Arne Kunze ¹ , Axel von Hehl ¹ , Hans-Werner Zoch ¹ | PhD Sandra Sanchez-Salcedo ^{1,2} , PhD Maria Vallet-Reg ^{1,2} , PhD Fuyuhiko Tamanoi ³ , PhD Carlotta Glackin ⁴ , PhD Jeffrey I. Zink ⁵ |
| 12.40 | 'University of Birmingham, Birmingham, United Kingdom | 'University of Bristol, Bristol, United Kingdom, 'European Synchrotron Radiation Facility, Grenoble, France | 'Stiftung Institut Für Werkstofftechnik IWT, Bremen, Germany | Department of Inorganic and Bioinorganic Chemis Universidad Complutense de Madrid. Hospital 12 d Octubre. Madrid. Spain. *CIBER-BBN. Spain. Madrid. Spain. *CIBER-BBN. Spain. Madrid. Spain. *CIBER-BBN. Spain. Madrid. Spain. *Spain.*Department of Microbiology Immunology a Molecular Genetics. University of California Los Angeles. EEUU. *Department of Neurosciel City of Hope. Duarte Beckman Research Institute. Duarte. EEUU. *Department of Chemistry and Biochistry. University of California Los Angeles. Los Angeles. EEUU |
| | | | | MULTIFUNCTIONAL METAL OXIDE NANOPARTICLI FOR TRACKING AND IMAGING WITH POTENTIAL APPLICATIONS IN RADIOTHERAPY |
| 13.00 | | | | Magali Lavenas ¹³ , Dr Marina Simon ² , Dr Herve Seznec ² , Prof Joao Rocha ³ , Prof Luis Carlos ³ , Dr Marie Helene Delville ¹ |
| | | | | ¹ ICMCB/CNRS, Université de Bordeaux, ICMCB, Pes France, ² CNRS Univ. Bordeaux, CENBG, UMR 5797, |



| Symposium | A2 | A7 | B1 | B2 |
|---------------|--|--|---|--|
| Room | I-11/M1 | Rehearsal Room 5.17 /M1 | Maurice Saltiel Hall I/M2 | Aimilios Riadis Hall/M2 |
| Session Title | Magnetic Anisotropy | Sensing | Thermomechanical Controlled Processing I | Titanium |
| Chairperson | Radek Zboril | David Maestre | Ronald Schnitzer | Hans Seifert |
| 15.00 | HIGHLIGHT ROTATABLE MAGNETIC ANISOTROPY IN THIN FILMS DISPLAYING STRIPE DOMAINS | HIGHLIGHT Zno nanonets: Functional Nanomaterials Designed for electrical detection | CHARACTERIZATION OF THE RECRYSTALLIZATION BEHAVIOR OF HOT ROLLED STEELS | THE HIERARCHY OF MICROSTRUCTURE PARAME- TERS AFFECTING TENSILE DUCTILITY IN CAST AND FORGED TI-834 ALLOY DURING HIGH TEMPERATURE EXPOSURE |
| | <u>Dr. Marco Coïsson'</u> , Dr. Gabriele Barrera¹, Dr. Federica Celegato¹, Dr. Paola Tiberto¹ | <u>Fanny Morisot</u> ¹ , Thomas Demes ¹ , Valérie Stambouli ¹ , Michel Langlet ¹ , Mireille Mouis ² , Céline Ternon ^{1,3} | Raphael Esterl ¹ , Markus Sonnleitner ² , Helmut Spindler ² , Günter Wölger ¹ , Ronald Schnitzer ¹ | Dr Soran Birosca ¹ |
| | ¹ INRIM, Nanoscience and Materials Division, Torino, Italy | Univ. Grenoble Alpes, Grenoble-inp, LMGP, France, ² Univ. Grenoble Alpes, Grenoble-inp, IMEP-LAHC, France, ³ Univ. Grenoble Alpes, Grenoble-INP, LTM, France | Montanuniversität Leoben, Department of Physical Metallurgy and Materials Testing, Leoben, Austria, ² voestalpine Stahl GmbH, Linz, Austria | 'Swansea University , Swansea, United Kingdom |
| | LOW-DIMENSIONAL RUDDLESDEN-POPPER NICKELATES La4(NixCo1-x)3010: EFFECTS OF COBALT DOPING ON PHYSICAL PROPERTIES AND DIMENSIONALITY | NANOSTRUCTURED INTERFACE OF OCM RESONATORS FOR BIOSENSING APPLICATIONS | MICRO-ALLOYED HIGH STRENGTH STEELS FOR FORGINGS | MICROSTRUCTURAL EVOLUTIONS DURING LONG-TERM AGEING IN TITANIUM ALLOY TI-17 |
| 15.20 | <u>Dr. Susmit Kumar</u> ¹, Mr. Marius Uv Nagell\², Prof. Anja Olafsen Sjåstad¹, Prof. Helmer Fjellvåg¹ | Mr. Juan Antonio Rubio-Lara ¹ . Prof. Mark Welland ¹ | Dr Giuseppe Napoli¹, Professor Andrea Di Schino¹, Dr Sabrina Mengaroni². Dr Stefano Neri² | Nicolas Maury ¹² , Dr Jaafar Ghanbaja ¹ , Sylvie Migot ¹ , Dr Moukrane Dehmas ³ , Dr Elisabeth Aeby-Gauti- er ¹⁴ , Dr Claude Archambeau-Mirguet ² , Dr Jérôme Delfosse ⁵ |
| | ¹ Centre for Materials Science and Nanotechnology (SMN), Department of Chemistry, University of Oslo, P.O. Box 1033, NO-0315, Oslo, Norway, ³ Institute for Energy Technology (IFE), P.O. Box 40, NO-2027, Kjeller, Norway | ¹ University of Cambridge, Cambridge, United Kingdom | Dipartimento Ingegneria-Università Degli Studi Di Perugia, Terni, Italy, Acciai Speciali Terni, Terni, Italy | Institut Jean Lamour - UMR 7198 CNRS-Université de Lorraine, Nancy, France, 'Airbus Operations S.A.S., Toulouse, France, 'Cirimat - Université de Toulouse, Toulouse, France, 'Labex 'DAMAS' - Université de Lorraine, Nancy, France, 'Airbus Group S.A.S Airbus Group Innovations, Suresnes, France |
| | HIGHLIGHT HYSTERESIS IN MIXED ANISOTROPY Co/Pt BASED MULTILAYERS UNDER OBLIQUE FIELDS | HIGH-TEXTURED ZINC OXIDE THIN FILMS DEDICATED TO THE DETECTION OF HYDROGEN SULFIDE | ADVANCED THERMO-MECHANICAL PROCESSING OF A MODERN HIGH STRENGTH LOW ALLOY STEEL | MICROSTRUCTURE AND MECHANICAL PROPERTIES OF 8 FORGING METASTABLE TITANIUM ALLOY TI-7333 |
| 15.40 | Prof loannis Panagiotopoulos ¹ , Mr Anastasios Markou ^{1,2} , Dr Angelos Mourkas ¹ , Prof Laurentiu Stoleriu ³ , Prof Alexanru Stancu ³ | <u>Prof Didier Fasquelle</u> ¹ | Carina Ledermüller ¹ . Huijun Li ² . Sophie Primig ¹ | Nana Chen', Shubo Liu', Hongchao Kou', Jinshan Li |
| | ¹ University Of loannina, loannina, Greece, ² Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, ³ Alexandru loan Cuza University, lasi, Romania | [†] University Of Littoral Cote D'opale, Calais, France | ¹ School of Materials Science and Engineering, UNSW Sydney, Sydney, Australia, ² Faculty of Engineering and Information Science, University of Wollongong, Wollongong, Australia | 'State Key Laboratory of Solidification Processing, Northwestern Polytechnical University, Xi'an 710072, China |
| | GROWTH, MICROSTRUCTURE AND PROPERTIES OF Fe, Ni and Co Nanowhisker | NANOPOROUS GOLD OBTAINED FROM A METALLIC GLASS PRECURSOR AS SUBSTRATE FOR SURFACE ENHANCED RAMAN SCATTERING | EFFECT OF TEXTURE, CRYSTAL ANISOTROPY AND MICROSTRUCTURAL HETEROGENEITY ON THE CHARPY IMPACT TOUGHINESS BEHAVIOUR OF LOW CARBON STEELS | CHARACTERIZATION OF PHASE TRANSITIONS IN BETA TI ALLOY BY DILATOMETRY |
| 16.00 | <u>Gunther Richter</u> '. Wenting Huang' | Dr. Y. Xue ¹ , Dr. F. Scaglione ¹ , Dr. E.M. Paschalidou ¹ , Prof. P. Rizzi ¹ , <u>Prof. Livio Battezzati</u> ¹ | Lorena Sanz', Dr. Beatriz Pereda !, Prof. Beatriz López', Prof. Jose Mª Rodriguez-Ibabe! | Pavel Zhanal ^{1,2} , Ph. D. Petr Harcuba ¹ , Ph. D. Jana Smi- lauerova ¹ , Ph. D. Michal Hajek ¹ , Ph. D. Jozef Vesely ¹ , Prof., Ph. D. Milos Janecek ¹ |
| | ¹ Max Planck Institute For Intelligent Systems, Stuttgart, Germany | ¹ Università di Torino, Torino, Italy | 'Ceit And Tecnun, Donostia - San Sebastian, Spain | Charles University, Department of Physics of Mate- rials, Prague, Czech Republic, 'Research Centre Rez, Husinec, Czech Republic |
| | MAGNETIC PROPERTIES OF Co-DOPED MnBi | HIGHLIGHT SELF-PROPAGATING SYNTHESIS OF DUCTILE RUAL INTERMETALLIC FROM NANOSCALE REACTIVE MUL- TILAYERS — FUNDAMENTALS AND PROSPECTIVE APPLICATIONS | ON THE (TI, Mo)C CLUSTER AND PRECIPITATE FOR- MATION IN ADVANCED HIGH STRENGTH STEELS | DEFORMATION INDUCED FORMATION OF NANO/ ULTRAFINE-TRIMORPHIC STRUCTURE IN TI-5553 ALLOY |
| 16.20 | MSc Konstantina Kanari'. <u>Dr Charalampos Sarafidis'</u> . Dr Margariti Gjoka², MSc George Sempros¹, Dr Orestis Kalogirou' | Prof.DrIng. Frank Mücklich ¹ , DrIng. Karsten Woll ² , M.Sc. Christoph Pauly ¹ | Dr. Jiangting Wang ¹ , Assoc. Prof. Matthew Weyland ² , Ilias Bikmukhametov ¹ , Peter Hodgson ¹ , Ilana Timokhina ¹ | Dr. Jiangkun Fan¹ |
| | ¹ Department Of Physics, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, ² Institute of Nanoscience and Nanotechnology, NCSR [*] Demokritos [*] , Athens, Greece, Agia Paraskevi, Greece | ¹ Saarland University, Saarbrücken, Germany, ² Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany | Institute for Frontier Materials, Deakin University, Waum Ponds, Geelong, Australia, 'Monash Centre for Electron Microscopy & Department of Materials Science and Engineering, Monash University, Clayton, Australia | Northwestern Polytechnical University, Xi an, China |
| | MAGNETO-CHAINS OF MAGNETIC NANOPARTICLES: FABRICATION AND PROPERTIES | ALUMINIUM NANOPARTICLES EMBEDDED IN MESOPOROUS aSi-H | DEVELOPED ULTRAFINE GRAINED HIGH STRENGTH LOW CARBON STEELS | IN SITU PREPARATION OF B-TITANIUM ALLOY MATRIX COMPOSITES REINFORCED WITH B4C PARTICLES |
| 16.40 | MSc Student Eirini Myrovali [*] , MSc Student Nikos Maniotis [*] , MSc Student Antonis Makridis [*] , Doctor Theodoros Samaras [*] , Researcher Ulf Wiedwald ² , Doctor Makis Angelakeris [*] | M.Sc. Torunn Kjeldstad ¹ , Ph.D. Annett Thøgersen ² , Prof. Edouard Monakhov ¹ , Ph.D. Augustinas Galeckas ¹ | Prof. Mamdouh Eissa', Prof. Ahmed Al-Sheikh'. Prof. Taha Mattar ¹ , Engineer Hassan Bahaa-Eldin' | Dr. Rodrigo Contieri ¹ , MEng Student Vitor Rielli ¹ |
| | ¹ Physics Department, Aristotle University of Thes- saloniki, Thessaloniki, 54124, Greece, ² Fakultät für Physik and Center for Nanointegration Duisburg-Essen (CeNIDE), Duisburg-Essen, 47048, Germany | ¹ University Of Oslo, Department of Physics, Oslo, Norway, ² SINTEF, Oslo, Norway | Steel Technology Department, Central Metallurgical Research And Development Institute "CMRDI", Helwan, Egypt. "Mining, Petroleum and Metallurgy Department, Faculty of Engineering, Caira University, Guiza, Egypt | ¹ University Of Campinas (unicamp), Campinas, Brazil |
| | | | | |



| Symposium | B4 | В7 | B8 | В9 |
|---------------|--|--|--|---|
| Room | 3.20/M1 | CR III Hall/M2 | Conference Room 1/M1 | I-08/M1 |
| Session Title | Fatigue and Al-alloys | Theory and Materials Modelling | Microstructure Characterization, Mechanical and Other Properties | BMG alloy development and mechanical properties |
| Chairperson | Anton Hohenwarter | Arnaud Marmier | Ivan Guillot | Livio Battezzati, Mariana Calin |
| | ENHANCED FATIGUE LIVES OF ULTRAFINE-GRAINED LAMINATED METAL COMPOSITES PRODUCED BY ACCUMULATIVE ROLL BONDING | KEYNOTE/INVITED TOWARDS A MOLECULAR LEVEL UNDERSTANDING OF METAL-ORGANIC FRAMEWORKS | HIGHLIGHT Hf. Mo AND Zr TRACE ELEMENTS INFLUENCING THE ALIOCOZSOr of Fe 1,5 Ni s,1 Ti compositionally complex ALLOY | HIGHLIGHT ROLE OF MINOR ADDITION OF 'SOFT' METALLIC ELEMENTS IN FORMATION AND PROPERTIES OF TI-BASED BULK METALLIC GLASSES |
| 15.00 | Frank Kümmel ¹ , PD DrIng. habil. Heinz Werner Höppel ¹ , Prof. Dr. rer. nat. Mathias Göken ¹ | | Dr. Anna Manzoni ¹ , Mrs. Christiane Förster ¹ , Mr. Christoph von Schlippenbach ¹ , Prof. Marwan Mousa ² , Prof. Uwe Glatzel ² , Dr. Nelia Wanderka ¹ | <u>Prof. Mariana Calin</u> ¹, Dr. Supriya Bera¹, Dr. Baran Sarac³, Parthiban Ramasamy¹, Prof. Mihai Stoica³, Prof. Jürgen Eckert³ |
| | ¹ Friedrich-Alexander-Universität Erlangen-Nürnberg; Department of Materials Science and Engineering (WWI), Erlangen, Germany | Prof. Dr. Ir. Veronique Van Speybroeck ¹ | ¹ Helmholtz-Zentrum Berlin Für Materialien Und Energie GmbH, Berlin, Germany, ² University Bayreuth, Metals and Alloys, Bayreuth, Germany, ³ Dept. of Physics, Mu'tah University, Al-Karak, Jordan | ¹ Leibniz Institute for Solid State and Materials Research Dresden, Dresden, Germany, ² Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria, ³ Department of Materials, ETH Zürich, Zürich, Switzerland |
| | NEWH INSIGHTS INTO STRUCTURAL INSTABILITIES INITIATED UNDER CYCLIC LOADING CONDITIONS | | COMPARISON OF MECHANICAL PROPERTIES OF CYMIFECON, CU AND TimaZT2; Hf1; ND2mT2; HIGH ENTROPY ALLOYS WITH THE DIFFERENT CRYSTAL LATTICE IN THE TEMPERATURE RANGE OF 4.2 – 293 K. | HIGHLIGHT EXCEPTIONALLY BROAD COMPOSITIONAL RANGE FOR BULK METALLIC GLASS FORMATION IN THE Mg-Cu-yb System |
| 15.20 | Marlene Kapp¹, Dr. Oliver Renk¹, Dr. Thomas Leitner², Dr. Bo Yang¹, Prof. Dr. Reinhard Pippan¹ | ¹Ghent University - Center For Molecular Modeling. Belgium | Mr Yuriy Shapovalov ¹ , PhD Elena Tabachnikova ¹ , PhD Aleksey Podolskiy ¹ , Dr Viktor Gorban ² , Dr Sergey Firstov ² | Dr. Kart Shamlaye ¹ . Dr Kevin Laws ² . Professor Joerg Loeffler ¹ |
| | "Erich Schmid Institute Of Materials Science, Leoben, Austria. ² Montanuniversität Leoben, Leoben, Austria | | ¹ B. Verkin Institute for Low Temperature Physics and Engineering of the NAS of Ukraine, 47 Nauky Ave., Kharkiv, Ukraine, ¹ Frantsevich Institute for Problems of Materials Science of the NAS of Ukraine, ³ Krzhizha- novsky Str., Kyiv-142, Ukraine | ¹ ETH . Switzerland. ² The University of New South Wales. Sydney. Australia |
| | ON THE LOW CYCLE FATIGUE BEHAVIOR OF ULTRA-FINE GRAINED COPPER AFTER FRICTION-STIR | COST-EFFECTIVE AB INITIO COMPOSITE METHODS AS APPLIED TO THE STUDY OF METAL-ORGANIC FRAMEWORKS | INFLUENCE OF HEAT TREATMENT ON MECHANICAL PROPERTIES OF Cocrnifeti Base High Entropy Alloy | HIGHLIGHT EXPLORING NOVEL FUNCTIONALITIES OF METALLIC GLASSES |
| 15.40 | Mr. Salar Salahi [†] , Prof. G. Guven Yapici [†] | <u>Prof. Bartolomeo Civalleri</u> ', Mr Lorenzo Donà ¹ , Dr. Jan Gerit Brandenburg ² | Msc Igor Moravcik ¹ , Phd Jan Cizek ¹ , Prof. Ivo Dlouhy ¹ | Dr Konstantinos Georgarakis¹ |
| | 'Ozyegin University, Istanbul, Turkey | Department of Chemistry, University of Torino, Torino, Italy, Department of Chemistry, University College London, London, United Kingdom | ¹ Brno University Of Technology, Brno, Czech Republic | 'Cranfield University, Cranfield, United Kingdom |
| | COMPARISON OF PLASTIC STRAIN DISTRIBUTIONS AND DEFORMATION MECHANISMS IN COARSE AND UFG AL 5083 ALLOY IN TENSION, AT VARIOUS STRAIN RATES, AND DURING CREEP | EXPLORING THE FLEXIBILITY OF MIL-47(V)-TYPE MATERIALS USING FORCE FIELD MOLECULAR DYNAMICS SIMULATIONS | CUMULATIVE EFFECT OF DIFFERENT NUMBER OF ATOM TYPES IN FCC-STRUCTURED HEA ON MICRO- STRUCTURE AND MECHANICAL PROPERTIES | HIGHLIGHT TENSILE CREEP AND PHYSICAL MECHANISM IN A Cu46Zr46Al8 METALLIC GLASS |
| 16.00 | Mrs Anchal Goyat ¹² , Dr Veronique Doquet ¹² | <u>Jelle Wieme</u> ¹ , Louis Vanduyfhuys ¹ , Sven M.J. Rogge ¹ , Michel Waroquier ¹ , Veronique Van Speybroeck ¹ | Pramote Thirathipviwat ^{1,2} , Junhee Han ¹ , Jens Freudenberger ¹ , Thomas Gemming ¹ , Kornelius Nielsch ^{1,2} | Prof. Jean-marc Pelletier ¹ . Dr J.C. QIAO ² , Prof. Yao YAO ³ |
| | 'CNRS, Laboratoire de Mécanique des Solides, Palaiseau, France, 'Ecole Polytechnique, Université Paris-Saclay, Palaiseau, France | ¹ Center For Molecular Modeling, Ghent University, Zwijnaarde, Belgium | ¹ IFW Dresden, Dresden, Germany, ² TU-Dresden, Dresden, Germany | ¹ Mateis Insa-Iyon, Villeurbanne, France, ² NWPU, Xi'an, P.R. China, ² NWPU, Xi'an, P.R. China |
| | THE INFLUENCE OF THE GRAIN SIZE OF SPD-PRO- CESSED AI-Mg-Mn ALLOY ON DYNAMIC STRENGTH | HIGHLIGHT TUNING METAL-ORGANIC FRAMEWORKS PROPERTIES TOWARDS ENHANCED CATALYTICAL PERFORMANCES. ADVANCES IN COMBINED EXPERIMENTAL-COMPUTATIONAL APPROACHES | CHARACTERIZATION OF NON-METALLIC INCLUSIONS IN Cocrfemnni High-Entropy Alloy | ABNORMAL INTERNAL FRICTION AND PLASTICITY IN THE IN-SITU Ti60Zr15V10Cu5Be10 METALLIC GLASS MATRIX COMPOSITE |
| 16.20 | Ph. D. Anastasiia Petrova ¹ . Professor Irina Brodova ¹ . Professor Sergey Razorenov ² . Mr Evgeniy Shorokhov ² | <u>Caroline Mellot-Draznieks</u> ¹ | Ms. Nuri Choi ¹ , Mr. Hyun Seok Oh ² , Professor Eun Soo Park ² , Professor Joo Hyun Park ¹ | <u>Dr. Jichao Qiao</u> ¹. Professor Jean-Marc Pelletier², Professor Yao Yao¹ |
| | 'M.N. Miheev Institute Of Metal Physics Of Ural Branch Of Russian Academy Of Sciences, Ekaterinburg, Russian Federation, ² Institute of problems of chemical physics, Russian academy of sciences, Chernogolovka, Russian Federation, ³ Russian federal nuclear center, Zababakhin all-Russian scientific research institute of technical physics, Snezginsk, Russian Federation | ¹ College De France, CNRS, UPMC Univ Paris 6, Paris, France | 'Hanyang University, Ansan, South Korea, ² Seoul National University, Seoul, South Korea | ¹ Northwestern Polytechnical University, Xi [*] an, China, ² INSA de Lyon, Villeurbanne cedex, France |
| | | | INFLUENCE OF DEFORMATION ON MICROSTRUC- TURAL EVOLUTION AND SUBSEQUENT MECHANICAL PROPERTIES OF SEVERAL HIGH ENTROPY ALLOYS | |
| 16.40 | | | Dr. Kwang Seok LEE ^I , Dr. Jong Woo WON, Dr. Ka Ram LIM, Dr. Young Sang NA | |
| | | | 'Korea Institute Of Materials Science, Changwon, South Korea | |
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| Symposium | B10 | C1 | C3 | C4 |
|---------------|--|---|--|--|
| Room | CR I Hall/M2 | Friends of Music Hall/M1 | Maurice Saltiel Hall III/M2 | Conference Room 4/M1 |
| Session Title | Corrosion & Wear IV | Coatings deposition routes and novel characterization techniques 5/5 -Multi-coatings | Synthesis and processing | Additive Manufacturing of polymers 2 |
| Chairperson | Stefanos Skolianos | D.S. Calderon, A. Weisenburger | Lars Nyborg | Sebastian Piegert |
| | EFFECT OF SI ADDITION ON THE MICROSTURUCTURE AND WEAR RESISTANCE OF AS-CAST Mg-5Sn ALLOY | HIGHLIGHT MICROSTRUCTURAL CONTROL OVER POROUS OXIDE MULTILAYERS PREPARED BY MS FOR ENVIRONMEN- TALLY STABLE 1D PHOTONIC STRUCTURES | HIGHLIGHT EFFECT OF POST-SYNTHESIS THERMAL TREAT- MENTS ON SOLUTION COMBUSTION SYNTHESIS OF (Ni,Fe) Cr ₂ O ₄ PIGMENT | ADDITIVE MANUFACTURING APPROACHES FOR SPACE EXPLORATION ACTIVITIES |
| 15.00 | <u>Dr. Erdem Karakulak</u> ', Yusuf Burak Küçüker ¹ | Mr. Aurelio García-Valenzuela ¹ , Dr. Carmen López-Santos ¹ , Dr. Rafael Alvarez ¹ , Dr. Victor Rico ¹ , Dr. Ramon Escobar-Galindo ² , Dr. Mercedes Alcón ² , Dr. Alberto Palmero ¹ , Prof. Agustin R. González-Etipe ¹ | Dr. Sergio Mestre¹, Dña. Jessica Gilabert², Dra. María Dolores Palacios¹, Dr. Vicente Sanz¹ | <u>Stefan Siarov'</u> , Aidan Cowley ¹ , Miranda Frateri ² , Oriane Garcia ¹ , Jeremy Reguette ¹ , Manel Vera Palou ¹ |
| | 'Kocaeli University, İzmit, Turkey | ¹Csic-univ. Sevilla, Sevilla, Spain. ²Abengoa Research, Sevilla, Spain | ¹ Universitat Jaume I, Castellón, Spain, ² Asociación de investigación de las Industrias Cerámicas, Castellón, Spain | ¹ European Astronaut Centre (EAC). European Space Agency (ESA), Koln, Germany. ² Deutsches Zentrum für Luft- und Raumfahrt (DLR), Koln, Germany |
| | THE EFFECT OF CORROSION ON THE MICROSTRUCTURE OF THE AL-SCU MATRIX COMPOSITES REINFORCED WITH TIC PARTICLES | THE USE OF SYNERGISTIC EFFECT BETWEEN THE OPTICAL AND SEMICONDUCTOR PROPERTIES OF AGNPS/TIO2 PHOTONIC CRYSTALS FOR THE PHOTO-CATALYTIC ACTIVITY ENHANCEMENT | IMPLEMENTATION OF AN IN SITU TREATMENT IN THE SPS CYCLE FOR THE OPTIMISATION OF THE MECHANICAL PROPERTIES OF THE AZ91 MAGNE- SIUM ALLOY | ON ADDITIVE MANUFACTURING OF PEEK |
| 15.20 | <u>Burak Dikici</u> ¹ , Fevzi Bedir ² , Mehmet Gavgali ³ | M.Sc. Joanna Ginter ¹ , M.Sc. Kaja Spilare-wicz- Stanek ¹ , Dr Aneta Kisielewska ¹ , Prof. Ireneusz Piwoński ¹ | Ms Nathalie Allain ¹³ , M. Mathieu Mondet ¹²³ , M. Sébastier Lemonnier ² , Ms Elodie Barraud ² , M. Thierry Grosdidier ¹²³ | Professor Brando Okolo ¹ . <u>Dipl Ing Uwe Popp</u> ¹ . MSc. Julian Scholz ¹ |
| | 'Ataturk University, Department of Metallurgical and Materials Engineering, Erzurum 25240, Turkey 'Gebze Technical University, Department of Mechanical Engineering, Rocaeli-Gebze 41400, Turkey ³ Ataturk University, Department of Mechanical Engineering, Erzurum 25240, Turkey | ¹ University of Lodz, Faculty of Chemistry, Department of Materials Technology and Chemistry, Lodz, Poland | ¹ University of Lorraine, Laboratoire D'etude Des Microstructures El De Mécanique Des Matériaux, UMR CNRS 7239, lle du Saulcy, 57045 Metz, France, French-German Research Institute of Saint-Louis, (ISL), 5 rue du Général Cassagnou, 68300-Saint-Louis, France, ² University of Lorraine, LABoratory of EXcel- lence Design of Alloy Metals for low-mAs Structures (Labex DAMAS), lle du Saulcy, 57000 - Metz, France | 'Apium Additive Manufacturing Gmbh, Kartsruhe, Germany |
| | CHARACTERIZATION OF THE HIGH TEMPERATURE OXIDATION BEHAVIOR OF SIMO CAST IRON USED AS EXHAUST MANIFOLDS | PHOTOLUMINESCENCE PROPERTIES OF POROUS SILICON EMBEDDED WITH II-VI SEMICONDUCTORS | CHARACTERIZATION OF A TITANIUMNITRIDE REINFORCED FeCoMo ALLOY | 3D PRINTED PEEK PROCESSED BY FUSED FILAMENT FABRICATION: PROPERTY AND PROCESS RELATION |
| | <u>Gülşah Aktaş Çelik</u> ¹ , Assist. Prof. Dr. Şaban Hakan Atapek ¹ , Assoc. Prof. Dr. Şeyda Polat ¹ , Prof. Dr. Gregory N. Haidemenopoulos ² | Dr. Osvaldo de Meto¹, MSc Claudia de Meto¹², Mr. Yoandry Gonzalez¹, Dr. Maria Sánchez¹, Dr. Guillermo Santana⁴, Dr. Jaime Santoyo-Salazar⁴, Dr. Vicente Torres-Costa³ | <u>Dr. Christoph Turk'</u> , DipL-Ing. Ingrid Schemmel ¹ , Dr. Gert Kellezi ¹ , Prof. Dr Helmut Clemens ² , Dr. Harald Leitner ¹ | Dr. Ugo Lafont ¹ , Derek Aranguren Van Egmond ¹ , Stefan Siarov ¹ , Dr. Christopher Semprimoschnig ¹ |
| 15.40 | ¹ Kacaeli University, Kocaeli, Turkey, ² University of Thessaly, Volos, Greece | Physics Faculty, University of Havana, 10400 La Habana, Cuba, ⁴ Institut Jean Lamour, UMR CNRS 7198, Université de Lorraine, Parc de Saurupt, CS 50840, 54011 Nancy Cedex, France, ³ Instituto de Investigación en Materiales, Universidad Nacional Autónoma de Mexico, Cd. Universitaria, A.P. 70-360, Coyoacán 04510, México D. F., México, ⁴ Physics Department, Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional, CINVESTAV-IPN, A.P. 14-740, México D.F. 07360, México, ⁵ Applied Physics Department, Faculty of Sciences, Universidad Autónoma de Madrid, Cantoblanco 28049, Madrid, Spain | ¹ Böhler Edelstahl Gmbh & Co KG, Kapfenberg, Austria; ² Montanuniversität Leoben, Department of Physical Metallurgy and Materials Testing, Leoben, Austria | 'European Space Agency - ESTEC, Noordwijk, Nederland |
| | EFFECT OF EVA AGING ON SOLAR CELL RELIABILITY FOR PHOTOVOLTAIC APPLICATION | HIGH TRANSPARENT AND STABLE SILVER NANOW- IRES AS FLEXIBLE TRANSPARENT ELECTRODE USING PLASMA TECHNIQUE | SYNTHESIS OF W.C AND WC POWDERS VIA MECHANICAL ACTIVATION-ASSISTED AUTOCLAVE PROCESSING | CONDUCTIVE POLYETHERETHERKETONE NANOCOM- POSITE FILAMENTS FOR ADDITIVE MANUFACTURING |
| 16.00 | Dr. Kamel Agroui ¹ , Dr. George Collins ² , Dr. Gernot Oreski ³ , Dr. Oualid Arfi ⁴ | Kim Dogeun¹, Lee Seunghun¹, Jung Sunghoon¹ | Nihan Özkan Aytekin ^{1,2} , Duygu Ağaoğulları ¹ , M. Lütfi Öveçoğlu ¹ | <u>Prof. Jose Covas</u> ¹² , Prof Maria Paiva ¹² , Patricia Lima ² , Jordana Goncalves ² , Dr. Ugo Lafont ³ |
| | ¹ Research Centre On Semiconductors, Algeirs, Algeria, ² New Jersey Institute of Technology (NJIT), New Jersey, USA, ³ Polymer Competence Centre Leoben (PCCL), Leoben, Austria, ⁴ Research Centre On Semiconductors, Algiers, ALGERIA | ¹ Korea Institute of Materials Science | ¹ Istanbul Technical University, Metallurgical and Materials Engineering Department, Particulate Materials Laboratories (PML), Istanbul, Turkey, ² Alasehir Adigüzel Vocational School, Istanbul, Turkey | ¹ IPC/I3N University of Minho, Guimaraes, Portugal. ² PIEP, Guimaraes, Portugal. ¹ European Space Agency, Noordwijk, The Netherlands |
| | | ATOMIC LAYER DEPOSITION OF COPPER OXIDE AND METALLIC COPPER THIN FILMS | PROPERTIES OF SUPERALLOY POWDERS FOR ADVANCED MANUFACTURING: COMPARISON OF THREE INERT GAS ATOMISATION PROCESSES | RECYCLABILITY OF ADDITIVE LAYER MANUFACTURED EPDM AND POM PARTS IN VIEW OF SPACE MANUFACTURING: A PRELIMINARY STUDY |
| 16.20 | | MSc Claudia de Melo ¹² , Dr. Maud Jullien ¹ , Prof. Jean François Pierson ¹ , Prof. Frank Mücklich ² , Dr. David Horwat ¹ | <u>Dr. Stefan Drawin</u> ł, Dr. Lucas Dembinski [‡] , Dr. Marc Thomas [‡] , Dr. Yoann Danlos [‡] , Olivier Godde [‡] | Prof. Francesca Nanni [†] . Valeria Cherubini [†] . Fabio Franceschetti [†] . Marianna Rinaldi [†] |
| | | ¹ Institut Jean Lamour, UMR CNRS 7198. Université de Lorraine, Parc de Saurupt, CS 50840, Nancy, France, ² Department of Materials Science and Engineering, Saarland University, Saarbrücken, Germany | ¹ Onera - The French Aerospace Lab. Chatillon, France, ² UTBM-IRTES-LERMPS, Belfort, France | 'University of Rome Tor Vergata, Rome, Italy |
| 16.40 | | FABRICATION AND PROPERTIES OF ELECTRO- PLATED F8-Cu CONTINUOUS FILMS AND POROUS MICROSTRUCTURES DEPOSITED ONTO E-BEAM LITHOGRAPHED PATTERNS | POWDER ROUTE PROCESSING OF Nb SILICIDE BASED ALLOYS | 3D PRINTED PCL SCAFFOLDS FOR BIOMEDICAL APPLICATIONS |
| | | <u>Evangelia Dislaki</u> ¹ , Federica Celegato ³ , Paola Tiberto ³ , Jordi Sort ^{1,2} , Eva Pellicer ¹ | <u>Mr Edward Gallagher</u> ', Dr. Claire Utton ¹ , Prof Panos Tsakiropoulos ¹ | DrEng. Nikolaos Michailidis ¹² . <u>Mr. Marios Pantazo-poulos</u> ¹ , DrEng. Alexander Tsouknidas ² |
| | | ¹ Universitat Autònoma de Barcelona, Physics Department, E-08193 Bellaterra, Spain, ² Institució Catalana de Recerca i Estudis Avançats (ICREA), ³ INRIM, I-10135 Torino, Italy | ¹ University Of Sheffield, Sheffield, United Kingdom | Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, PLIN-Nanotech- nology SA, Spectra Business Center, Thermi-Thessa- loniki, Greece |
| | | | | |



| Symposium | C8 | С9 | C10 | C11 |
|---------------|--|---|--|--|
| Room | Library Hall/M2 | Conference Room 3/M1 | F 319/M1 | MOYSA Hall/M2 |
| Session Title | Aluminium Alloys - II | Sintering and joining processes | Microstructure formation and mechanically driven transformation | Materials and Processes |
| Chairperson | Dispinar Derya, Andrew R. Kennedy | Dr. Dionysios Manessis | A. Bachmaier, A. Kilmametov | Alain Claverie |
| | CHANGE IN MELT QUALITY OF GRAIN REFINED A356 BY DURATION | PCB EMBEDDING AND SINTERING MANUFACTURING PROCESSES FOR THE DEVELOPMENT OF ADVANCED POWER MODULES USED IN ELECTRIC VEHICLE APPLICATIONS | HIGHLIGHT PHASE TRANSITIONS IN COPPER-BASED ALLOYS UNDER HIGH PRESSURE TORSION | DIFFERENTIAL HALL CHARACTERISATION OF SHALLOW STRAINED SIGE LAYERS |
| 15.00 | Ozen Gursoy'. Dr Eray Erzi'. Assoc. Prof. Dr. Derya Dispinar ¹ | Dr. Dionysios Manessis ^{1,2} , Mr. Lars Boettcher ² , Dr. Andreas Ostmann ² , Mr. Johannes Blum ³ , Mr. Mike Morianz ⁴ , Mr. Jo- hannes Stahr ⁴ , Prof. Johann Nicolics ⁵ , Mr. Michael Unger ⁵ | Prof. Boris Strauma(1 ^{2,3,6} , Dr. Olga Kogtenkova ² , Dr. Askar Kilmametov ³ , Dr. Andrey Mazilkin ^{2,3} , Dr. Anna Kornewa ⁵ , Prof Pawel Zieba ⁵ , Dr Petr Straumal ^{4,6} , Dr. Brigitte Baretzky ³ | Richard Daubriac ¹ , Emmanuel Scheid ¹ , Filadelfo Cristiano ¹ , Sylvain Joblot ² , David Barge ² |
| | 'Istanbul University, Istanbul, Turkey | "Technical Universitiy Berlin/Fraunhofer IZM, Berlin, Germany," Fraunhofer IZM, Berlin, Germany, "ILFA Feunstelletrechnik GrinbH, Hannover, Germany, "AT&S Austria Technologie & Systemetechnik Aktiengesellschaft, Leoben, Austria, ³ Vienna University of Technology (VUT), Vienna, Austria | *INTU MISiS. Chernogolovka, Russian Federation. *Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia, 'Karlsruher Institut für Technologie (KIT), Institut für Nanotechnologie. Eggenstein-Leopoldshafen, Germany, 'Laboratory of Hybrid Nanomaterials, National University of Science and Technology «MISIS», Moscow, Russia. 'Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Cracow, Poland, 'A.A. Baikov Institute of Metallurgy and Materials Science, RAS, Moscow, Russia | "LAAS-CNRS. Toulouse, France, ² STMicroelectronics, Crolles, France |
| | EFFECT OF B ADDITION ON THE MICROSTRUCTURES AND CORROSION BEHAVIOR OF A356 ALUMINUM ALLOYS | THE MICROSTRUCTURE-ENHANCEMENT OF NaxCoyOz FUNCTIONAL CERAMIC FILMS | HIGHLIGHT ON KINETICS OF GRAIN REFINEMENT BY SEVERE PLASTIC DEFORMATION | STRAIN AND CRYSTAL QUALITY OF HIGH Ge CON- TENT SIGE-On-INSULATOR FILMS FABRICATED BY THE CONDENSATION TECHNIQUE |
| 15.20 | I <u>smail Öztürk</u> ¹, Dr. Gökçe Hapçı Ağaoğlu¹, Associate Prof. Derya Dışpınar¹, Prof. Dr. Gökhan Orhan¹ | <u>Dr Ewa Jakubczyk</u> ¹ , Dr Rebecca Townsend ¹ , Dr Lynn Boniface ¹ , Professor Robert Dorey ¹ | Dr Andrey Belyakov ¹ , Dr. Marina Tikhonova ¹ , Mr. Pavel Dolzhenko ¹ , Dr. Taku Sakai ² , Dr. Rustam Kaibyshev ¹ | Fabien Rozé 12.3, Olivier Gourhant', François Bertin', Elisabeth Blanquet', François Pierre', Denis Rouchon', Véronique Guyader', Laurent Fauquier' 2.4, Clément Pribat', Yves Campidelli' |
| | 'Istanbul University, Istanbul. Turkey | ¹ University Of Surrey, Guildford, United Kingdom | ¹ Belgorod State University, Belgorod, Russian Federa- tion, ² UEC Tokyo (The University of Electro-Communica- tions), Tokyo, Japan | 'STMicroelectronics, Crolles, France, ² CEA-LETI, Greno- ble, France, ² Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, Grenoble, France, ² CNRS, LTM, Univ. Grenoble Alpes, Grenoble, France |
| | EVALUATION OF Fe-INTERMETALLIC FORMATION IN AI ALLOYS | ACHIEVING TITANIUM ARCHITECTURED MICRO- STRUCTURES BY COUPLING ELECTRON BEAM MELTING AND SPARK PLASMA SINTERING | HIGHLIGHT ACCELERATED GRAIN FRAGMENTATION BY ME- CHANICAL TWINNING IN MDFeD Cu-AI ALLOYS AND BREAK DOWN OF HALL-PETCH RELATION | EFFECT OF POST-METALLIZATION ANNEALING ON THE INTERFACIAL PROPERTIES OF METAL/AL ₂ O ₃ /Ge gate stacks |
| 15.40 | Ertan Musdal ¹ , Ozen Gursoy, <u>Eray Erzi</u> , Derya Dispinar ⁱ | Prof. Damien Fabregue¹, Dr. Guilhem Martin², Florian Mercier¹, Prof. Remy Dendievel², Prof. Jean-Jacques Blandin², Dr. Lorène Héraud² | <u>Dr. Hiromi Miura¹</u> , Mr. Yu Iwama¹, Dr. Masakazu Kobayashi¹ | Student Stamatios Alafakis ¹ , <u>Dr. Vassilios Ioan-</u> <u>nou-Sougleridis</u> ² , Prof. Dimitrios Skarlatos ¹ |
| | 'Istanbul University, Istanbul, Turkey | 'Mateis Insa Lyon, Villeurbanne, France, ² SIMAP, Université Grenoble-Alpes, Saint Martin d'Hères, France | ¹Toyohashi University of Technology, Toyohashi, Japan | "Department Of Physics / University Of Patras, Patras, Greece, "Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Aghia Paraskevi, Athens, Greece |
| | UNCERTAINTY IN USE OF DENSITY INDEX AS MELT QUALITY ASSESSMENT IN ALUMINIUM CASTINGS | MANUFACTURING AND THERMOHYDRAULIC CHARACTERIZATION OF SINTERED CAPILLARY STRUCTURE | HIGHLIGHT EFFECT OF PLASTIC DEFORMATION ON THE MICROSTRUCTURE, THERMAL RESPONSE AND MECHANICAL BEHAVIOR OF METALLIC PHASE CHANGE MATERIALS BASED ON THE AL-Sn SYSTEM | SUBSTRATE DAMAGE IN PHOSPHOROUS-IMPLANT- ED (100) GERMANIUM AFTER MS FLASH LAMP ANNEALING: ORIGINS AND SUPPRESSION |
| 16.00 | Eray Erzi ¹ , Ozen Gursoy ¹ . <u>Derya Dispinar</u> ¹ | Rémi Giraudon', Dr Stéphane Lips', Dr Laurent Gremillard', Dr Damien Fabregue ² , Dr Eric Maire ² , Dr Valérie Sartre ¹ | Prof. Elisabetta Gariboldi | Prof. Dimitrios Skarlatos¹, Prof. Nikolaos Vouroutzis², Dr. Vassilios Ioannou-Sougleridis², MSc Maria-Chris- tina Skoulikidou², Dr. Dimitrios Velessiotis³, Dr. Spyros Stathopoulos⁴, Prof. Emeritus John Stoermenos² |
| | ¹Istanbul University, Istanbul, Turkey | 'CETHIL. Villeurbanne, France, 'MATEIS, Villeurbanne, France | 'Politecnico di Milano, Dipartimento di Meccanica, Milano, Italy | "Department Of Physics / University Of Patras, Patras, Greece, "Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, "Institute of Nanoscience and Nanotechnology, NCSR" Demokritos", Aghia Paraskevi, Athens, Greece, "Department of Phys- ics, National Technical University of Athens, Zografou, Athens, Greece |
| | FLUIDITY CHARACTERIZATION OF ALUMINUM ALLOY FOR ENGINE BLOCKS | PREDICTION OF DEFORMATION AND WELD STRENGTH OF COMPACT DIFFUSION—BONDING HEAT EXCHANGERS WITH FINITE-ELEMENT SIMULATION | EFFECTS OF THERMOMECHANICAL TREATMENT ON HARMONIC STRUCTURE DESIGNED PURE Cu | UNDERSTANDING THE EFFECTS OF AIN AND SIN LAYERS ON THE NUCLEATION AND GROWTH OF GAN NANOWIRES BY PLASMA ASSISTED MOLECULAR BEAM EPITAXY |
| 16.20 | Eray Erzi ¹ . <u>Caglar Yuksel</u> ² . Ozen Gursoy ¹ , Derya Dispinar ¹ | PhD Student Matthieu Maunay ¹ , Material Science PhD Briottet Laurent ¹ , Material science PhD Moro Isabelle ¹ , Material science PhD Rigal Emmanuel ¹ | Shuichi Morinaka', Yamato Suto', Mie ota', Kei Ameyama' | Mr Savvas Eftychis ^{1,2} , Dr. Jann Kruse ¹ , Dr. Adam Adikimenakis ^{1,2} , Mrs Katerina Tsagkaraki ² , Mrs Maria Androulidaki ² , Dr. Triantafillia Koukoula ² , Prof. Thomas Kehagias ³ , Prof. Filomila Komninou ³ , Prof. Alexandros Georgakilas ¹ , ² |
| | ¹Istanbul University, Istanbul, Turkey ²Yildiz Technical University, Turkey | ¹ Univ Grenoble Alpes, CEA, LITEN, DTBH, Grenoble, France | ¹ Ritsumeikan University, Kusatsu City, Japan | 'Physics Department, University Of Crete, Heraklion / Crete, Greece. 'Microelectronics Research Group, LESL' FORTH, Hersklion / Crete, Greece. 'Physics Department, Aristotle University of Thessalloniki, Thessaloniki, Greece |
| | CHARACTERIZATION OF THREE-PHASE EUTECTIC MICROSTRUCTURE IN AI-Cu-Ag SYSTEM | | MODELLING THE THERMO-MECHANICAL PROCESSING OF MICRO-ALLOYED STEEL | PATTERNED SUBSTRATES FOR THE FABRICATION OF SPUTTERED Zno-BASED TRANSPARENT BIPOLAR DEVICES |
| 16.40 | M.S Candidate Mehmet Emre Cetinkaya ¹ . Res. Assist. Prof. Melis Serefoglu Kaya ¹ | | M.sc. Heinrich Buken ¹ , Prof. Dr. Ernst Kozeschnik ¹² | Dr Elias Aperathitis ¹ , Mr Athanasios Kostopoulos ¹ , Dr George Konstantinidis ¹ , Dr Mircea Modreanu ² , Ms Maria Kayambaki ¹ , Ms Katerina Tsagaraki ¹ |
| | 'Koc University, Istanbul, Turkey | | ¹ Technical University Vienna, Vienna, Austria, ² MatCalc Engineering GmbH, Vienna, Austria | 'FORTH/IESL, Heraklion, Greece, ² Tyndall National Institute, Cork, Ireland |
| | | | | |

EUROMAT2017 12<u>1</u>



| Symposium | D1 | D2 | D5 | D8 |
|---------------|---|---|--|--|
| Room | Artist Cafe/M1 | Museum Hall /M2 | I-15/M1 | I -16/M1 |
| Session Title | Tomography and Diffraction Tomography | Biomaterials, polymers and low-ordered systems | Strong Coupling of Thermo-chemical and Thermo-mechanical States | Ab initio based thermodynamics |
| Chairperson | Thilo Morgeneyer, Robert Atwood | Saso Sturm | Ernst Kozeschnik | D. Nguyen Manh |
| | HIGHLIGHT INTERPLAY BETWEEN BANDING AND THE WORK HARDENING BEHAVIOUR IN A DUAL PHASE STEEL WITH IMPROVED FORMABILITY | HIGHLIGHT ATOMIC SCALE COMPOSITIONAL MAPPING REVEALS Mg-RICH AMORPHOUS CALCIUM PHOSPHATE IN HUMAN DENTAL ENAMEL | KEYNOTE/INVITED THE PRIORITY PROGRAM "STRONG COUPLING OF THERMO-CHEMICAL AND THERMO-MECHANICAL STATES IN APPLIED MATERIALS" | KEYNOTE/INVITED FINITE TEMPERATURE EFFECTS IN AB INITIO SIMULATIONS OF THERMODYNAMIC AND ELASTIC PROPERTIES OF ALLOYS |
| 15.00 | Dr. Bernard L. Ennis ¹² , Dr. Enrique Jimenez-Melero ² , Dr. Kees Bos ¹ , Dr. Maxim P. Aarnts ¹ , Prof. Peter D. Lee ² | <u>Dr. Alex La Fontaine</u> ¹² , Dr. Alexander Zavgorodniy ¹⁴ , Dr. Howgwei Liu ¹ , Prof. Michael Swain ¹³ , Prof. Julie Cairney ¹ , ² | | |
| | ¹ Tata Steel, Umuiden, Netherlands, ² University of Manchester, Manchester, United Kingdom | Australian Centre for Microscopy and Microanalysis, The University of Sydney, Sydney, Australia: School of Aerospace, Mechanical and Mechatronic Engineering, The University of Sydney, Sydney, Australia: Faculty of Dentistry, The University of Sydney, Sydney, Australia: 'Institute of dental research, Westmead centre for Oral Health, Sydney, Australia: Faculty of dentistry, Kuwait University, Kuwait | Prof. Ingo Steinbach | Prof. Dr. Igor A. Abrikosov ¹² |
| | CHANGE OF MISORIENTATION OF INDIVIDUAL CRYS- TALLOGRAPHIC PLANES IN FATIGUE OF ALLOYS BY DIFFRACTION CONTRAST TOMOGRAPHY USING ULTRABRIGHT SYNCHROTRON RADIATION | 3D PRINTED BONE-MIMETIC NANOCOMPOSITES: STRUCTURAL CHARACTERISATION BY ADVANCED TRANSMISSION ELECTRON MICROSCOPY TECH- NIQUES | | |
| 15.20 | Prof. Yoshikazu Nakai¹, Prof. Daiki Shiozawa¹, Mr. Naoya Asakawa¹, Mr. Kenji Nonaka¹, Prof. Shoichi Kikuchi¹ | <u>Dr. Antiope Lotsari</u> ¹² , Mr. Anand-Kumar Ra- jasekharan', Prof. Mats Halvarsson ² , Prof. Martin Andersson ¹ | ¹Ruhr-university Bochum, Bochum, Germany | ¹ Linköping University, Linkoping, Sweden, ² National University of Science and Technology MISIS', Mascow, Russia |
| | ¹ Kobe University, Kobe, Japan | Department of Chemistry and Chemical Engineering, Chalmers University Of Technology, Gothenburg, Sweden, "Department of Physics, Chalmers University of Technology, Gothenburg, Sweden | | |
| | STUDY OF NON-BASAL SLIP IN Mg-Y ALLOY BY IN SITU 3D-XRD | IN-DEPTH METHODOLOGY ON THE STRUCTURAL CHARACTERIZATION OF EXILVA MICROFIBRILLATED CELLULOSE | CROSS-COUPLING BETWEEN DIFFUSION AND MECHANICAL RELAXATION: EFFECTS ON THE PRECIPITATION | PECULIARITIES OF STABILITY AND ELASTICITY IN THE Mon-Tan System |
| | <u>Dr. Leyun Wang</u> ¹² , Mr. Zhonghe Huang ¹ , Dr. Sangbong Yr ² , Dr. Jun-Sang Park ³ , Dr. Peter Kenesei ² , Dr. Xiaoqin Zeng ¹ , Dr. Erica Litleodden ² | Dr. Anastasia Riazanova ²⁷ , Dr. Per A. Larsson ¹ , Dr. Ramiro Rojas ¹² , Dr. Martha Herrera Rodriguez ¹ , Prof. Lars Wägberg ¹² , Dr. Hans Henrik Øvreba ³ , Prof. Lars Berglund ^{1,2} | Dr. Reza Darvishi Kamachali ¹ , Christian Schwarze ¹ | Nikola Koutná ¹² , <u>Dr. David Holee</u> ³ , Dr. Martin Friák ^{4,5,6} Prof. Paul Mayrhofer ¹ , Prof. Mojmír Šob ^{5,6,2} |
| 15.40 | ¹ Shanghai Liao Tong University, Shanghai, China, [‡] Helm- holtz-Zentrum Geesthacht, Geesthacht, Germany, ³ Argonne National Laboratory, Lernont, USA | ¹ KTH Royal Institute of Technology, Department of Fibre and Polymer Technology, Stockholm, Sweden, ² Wallenberg Wood Science Center (WWSC), Stockholm, Sweden, ² Borregaard, Extiva, R&D Department, Sarpsborg, Norway | Interdisciplinary Centre for Advanced Materials Simulation (ICAMS), Ruhr-university Bochum, Bochum, Germany | Montanuniversität LeobenInstitute of Materials Science and Technology, TU Wien, Vienna, Austria, Fraculty of Science, Masaryk University, Brno, Czech Republic, *Department of Physical Metallurgy and Materials Teeting, Montanuniversität Leoben, Leoben, Austria, *Institute of Physics of Materials, Academy of Sciences of the Czech Republic, *Central European Institute of Technology, CETTEC MU, Masaryk University, Brno, Czech Republic, *Central European Institute of Technology, CETTEC BUT, Brno University of Technology, Brno, Czech Republic |
| | APPLICATION OF TOMOGRAPHY TECHNIQUES TO STUDY STRESS CORROSION CRACKING OF Zr ALLOYS IN 3-DIMENSIONS | APPLICATION OF SCANNING KELVIN PROBE MI- CROSCOPY (SKPM) TOGETHER WITH INTERMODULA- TION FORCE MICROSCOPY (IM-AFM) FOR PROBING BOEHMITE (ALOOH) NANOPARTICLES IN POLYMER NANOCOMPOSITES | ICME STUDY OF PARTICLE DAMAGE BEHAVIOUR IN Fe-TIB ₂ METAL MATRIX COMPOSITES | ADVANCED AB INITIO METHODS FOR ELASTIC PROP- ERTIES OF ALLOYS. TEMPERATURE DEPENDENCE AND TREATMENT OF DISORDER |
| 16.00 | <u>Dr Alistair Garner</u> ', Dr Timothy Burnett', Mr Conor Gillen ¹ , Dr Philipp Frankel ¹ | <u>Media Ghasem Zadeh Khorasani</u> '. Dr. Dorothee Silbernagl ¹ , Prof. Heinz Sturm ¹² | M.Sc. Ding Wang ¹ , Dr. Pratheek Shanthraj ¹² , DrIng. Hauke Springer ¹ , Prof. DrIng. habil. Dierk Raabe ¹ | Thomas Dengg ¹² , Mohammad Dehghani ^{1,2} , Dr. Rostam Golesorkhtabar ² , Dr. Lorenz Romaner ¹ , Prof. Dr. An- drei Ruban ¹ , Prof. Peter Puschnig ² , Prof. Dr. Claudia Draxl ³ , <u>Dr. Jürgen Spitaler</u> ¹ |
| | 1University of Manchester, Manchester, United Kingdom | 'Federal Institute for Materials Research and Testing, Berlin, Germany, 'Technical University of Berlin, Berlin, Germany | Max-Planck-Institut für Eisenforschung GmbH Düsseldorf, Germany, AICES, RWTH Aachen University, Aachen, Germany | Materials Center Loben Forschung GmbH. Roseggerstr. 12, 8700 Leoben, Austria. University of Graz, Institute of Physics, NAWI Graz, Universitäisplatz 5, 8010 Graz, Austria. "Physics Department and IRIS Adlershof, Humboldt-Universitäitä zu Berlin, Zum Großen Windkanal 6 12489 Berlin, Germany. "Department of Materials Science and Engineering, KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden |
| | THERMO-MECHANICAL TREATMENTS OF TIAL ALLOYS STUDIED IN SITU BY HIGH-ENERGY X-RAY DIFFRACTION | NOVEL TRANSROTATIONAL SOLID STATE ORDER DISCOVERED BY TEM IN CRYSTALLIZING AMORPHOUS FILMS AND NEW MODEL OF AMORPHOUS STATE | COMBINED EXPERIMENTAL-AB INITIO STUDY OF MECHANO-CHEMICAL COUPLING DURING PRECIPI- TATION IN AL-BASED ALLOY | COMBINING GAUSSIAN PROCESSES AND NESTED SAMPLING TO MODEL HYDROGEN DISSOLUTION PROPERTIES IN BCC-Fe |
| 16.20 | Andreas Stark', Marcus Rackel', Michael Oehring', Lars Lottermoser', Norbert Schell ¹ , Florian Pyczak ¹ | Prof. Vladimir Kolosov | Dr. Sergiy Divinski¹, Vladislav Kulitcki¹², Bengū Tas Kavakbasi¹, Ankit Gupta³, Yulia Buranova¹, Dr. Tilmann Hickel³, Prof Jörg Neugebauer³, Prof Gerhard Wilde¹ | <u>Dr. Erlend Davidson</u> ¹ , Dr. Tom Daff ² , Prof. Gabor Csanyi ² , Prof. Mike Finnis ¹ |
| | ¹ Helmholtz-Zentrum Geesthacht, Geesthacht, Germany | ¹ Ural Federal University, Ekaterinburg, Russian Federation | 'Institute of Materials Physics, University of Münster, Germany, Münster, Germany, 'Belgorad State University, Belgorad, Russia, 'Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany | [†] Imperial College London, London, United Kingdom, [‡] University of Cambridge, Cambridge, UK |
| | MagDS FURNACE: AN IN SITU TEMPERATURE GRADIENT STAGE FOR 4D X-RAY IMAGING OF DIRECTIONAL SOLIDIFICATION | | MULTISCALE MODELLING OF THE EFFECT OF SMALL MOLECULES ON MECHANICAL PROPERTIES OF SHAPE MEMORY POLYMERS: THEORY VERSUS EXPERIMENT | ELASTIC PROPERTIES OF PALLADIUM-HYDRIDE SOLIDS FROM FIRST PRINCIPLES |
| 16.40 | Dr. Biao Cai ¹² , Prof. Peter Lee ¹² , Dr. Andrew Kao ³ , Prof. Andre Phillion ⁴ , Dr. Robert Atwood ⁵ , Dr. Elodie Boller ⁴ , Prof. Koulis Pericleous ³ | | Prof. Dr. Fathollah Varnik', M.Sc. Elias Mahmoud- inezhad', DiplIng. Axel Marquardt', PD Dr. Klaus Neuking', M.Sc. Ehsan Ghobadi', Prof. Dr. Holger Steeb ³ , Prof. Dr. Günther Eggeler ² | Beatrix Elsner ¹ , <u>Dr. Gregor Feldbauer</u> ¹ , Prof. Dr. Stefan Müller ¹ |
| 10.4U | ¹ School of materials, University Of Manchester, Oxford, United Kingdom, ² Research Complex at Harwell, Harwell, Oxfordshire, UK, ³ Centre for Numerical Mod- elling and Process Analysis, University of Greenwich, London, UK, ⁴ Department of Materials Science and Engineering, McMaster University, Hamilton, Canada, ³ Diamond Light Source Ltd., Harwell Science and Innovation Campus, Didcot, UK, ⁴ ESRF—The European Synchrotron, Grenoble, France | | ¹ (CAMS, Ruhr-University Bachum, Bochum, Germany, ² IFW, Ruhr-University Bachum, Bachum, Germany, ³ University of Stuttgart, Stuttgart, Germany | ¹ Institute of Advanced Ceramics, Hamburg University of Technology, Hamburg, Germany |



| Symposium | D10 | E6 | F3 | F6 |
|---------------|---|---|---|--|
| Room | CR II Hall/M2 | Maurice Saltiel Hall II/M2 | 3-21/M1 | Conference Room 2/M1 |
| Session Title | Fluids II | Hybrid materials and Fibre reinforced plastics II | Nanobiomaterials and nanotechnology for implants, devices and theranostics III | Structural properties of natural materials |
| Chairperson | Andreas Boudouvis, Theodoros Karakasidis | René Alderliesten | Daniel Ruiz Molina | Sylvain Meille |
| | HIGHLIGHT UNCERTAINTY AND REPRODUCIBILITY OF WATER FLOW-RATES IN CNTs | DEVELOPMENT OF POLYMER/METAL MULTILAYER COMPOSITES BY "SPARK PLASMA SINTERING" | DOPAMINE-BASED COORDINATION POLYMER NANOPARTICLES FOR BIOMEDICAL APPLICATIONS | HIGHLIGHT WATER-MEDIATED NANOCOMPOSITE INTERACTIONS REVEAL FUNCTIONAL DEFORMATION-CHARACTER- ISTICS OF HUMAN TOOTH DENTIN |
| | Ermioni Papadopoutou¹, Dr. Eduardo R. Cruz-Chú¹, Dr. Aleksandar Popadic³, Prof. Jens H. Walther¹², Prof. Matej Praprotnik¾, Prof. Petros Koumoutsakos¹ | <u>Jean-Charles Sébileau</u> ¹² , Mathias Freslier ¹ , Dr. Sébastien Lemonnier ¹ , Dr. Elodie Barraud ¹ , Dr. Adele Carradò ³ , Dr. Marie-France Vallat ² , Dr. Michel Nardin ² | Javier Garcia-Pardo¹, Fabiana Nador¹, Julia Lorenzo², Fernando Novio¹, Daniel Ruiz-Molina¹ | Dr. Jean-Baptiste Forien ² , Dr. Ivo Zizak ⁴ , Prof. Claudia Fleck ⁴ , Dr. Ansgar Petersen ¹ , Prof. Peter Fratzl ³ , Prof. Emil Zlotoyabko ⁴ , <u>Dr. Paul Zaslansky</u> ⁴ |
| 15.00 | Computational Science and Engineering Laboratory, ETH Zürich, 8031 Zürich, Switzerland, ¹ Department of Mechanical Engineering, Technical University of Denmark., Kongens, Denmark, ¹ Department of Molecular Modeling, National Institute of Chemistry, Ljubljana, Slovenia, ¹ Department of Physics, Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia | ¹ French-German Research Institute of Saint-Iouis (ISL), Saint-Louis, France, ³ Institut de Science des Matériaux de Mulhouse UMR 7361 CNRS UTAL, Driversié de Haute-Al- sace, Mulhouse, France, ³ Institut de Physique et Chimie des Matériaux de Strasbourg UMR 7504 CNRS UNISTRA, Strasbourg, France | ICN2-Institut Català de Nanociència i Nanotecno- logia, Campus Universitat Autònoma de Barcelona, Cerdanyola Del Vallès, Sania, 'Institut de Biotecno- logia i Biomedicina and Dept. Bioquímica i Biologia Molecular, Universitat Autònoma de Barcelona, Cerdanyola del Vallès, Spain | 'Charité - Universitätsmedizin Berlin, Berlin, Germany, 'Lawrence Livermore National Laboratory - Materials Science Division, 7000 East Avenue, Livermore, USA, 'Bepartment of Biomaterials Max Planck Institute of Colloids and Interfaces, Golm, Potsdam, Germany, 'Materials Engineering Department Technische Universität Berlin, Berlin, Germany, 'Flelmholtz-Zentrum Berlin für Materialien und Energie – Speicherring BESSY II, Berlin, Germany, 'Elepartment of Materials Science and Engineering, Technio Israel Institute of Technology, Haifa, Israel |
| | COMPUTATIONAL STUDY OF THE AGGREGATION OF SPHERICAL NANOPARTICLES IN THE FLOW OF BLOOD UNDER THE INFLUENCE OF MAGNETIC FIELD | FORMABILITY OF LIGHTWEIGHT STEEL-POLYMER SANDWICH SHEETS FOR TRANSPORT APPLICATIONS | ASYMMETRICALLY FUNCTIONALIZED MESOPOROUS SILICA NANOPARTICLES FOR DUAL TARGETING TO TUMORAL CELL AND MITOCHONDRIA | SPIDER SILK AND ITS STATISTICAL ANALYSIS |
| 15.20 | Evangelos Karvelas¹, Dr. Theodoros Karakasidis ¹. Dr Ioannis Sarris² | Dr. Josef Domitner', Florian Hönsch', Markus Weber ² , Dr. Domenico Foglia ² , Prof. Dr. Christof Sommitsch ¹ | Dr. Alejandro Baeza ^{1,2} , Mrs. Victoria López ¹ , Mrs. Verónica Rodríguez ¹ , Mrs. Maria Rocio Villegas ^{1,2} , Dr. Gonzalo Villaverde ^{1,2} , Dr. Daniel Lozano ¹ , Prof. Maria Vallet-Regi ¹ , ² | Phd Student Gabriele Greco ¹ , Prof. Nicola Pugno ¹²³ |
| | 'University Of Thessaly, Dept. of Civil Engineering , Pedion Areos, Volos, Greece, 'Technological Institute of Athens, Dept. of Energy Technology , Athens, Greece | Graz University of Technology: Institute of Materials Science. Joining and Forming: Research Group Tools & Forming, Graz. Austria. ² 4a manufacturing GmbH, Traboch, Austria | Universidad Complutense De Madrid, Madrid, Spain, ² Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain | 'Laboratory of Bio-Inspired and Graphene Nano- mechanics. Department of Civil. Environmental and Mechanical Engineering, University of Trento, Trento, Italy: School of Engineering and Materials Science, Queen Mary University of London, Mile End Road, EI 4MS London, UK, 'Italian Space Agency, Via del Politecnico snc, 00133 Rome, Italy |
| | MULTIPHASE FLOWS IN CONFINEMENT WITH COMPLEX GEOMETRIES | CHEMICAL MODIFICATION OF FIBER-MATRIX INTERFACES FOR ENHANCING THE STRENGTH AND DURABILITY OF LIGHTWEIGHT MATERIALSPART I: ADHESION PROMOTING COATINGS | COMPOSITE SILANIZED-POROUS SILICON-CRYS- TALLINE SILICON MICROCANTILEVERS AS BIMODAL MECHANICAL-OPTOPLASMONIC BIOSENSING INTERFACES | DEFORMATION MECHANISMS DURING SPLITTING AND FRACTURE OF BAMBOO |
| 15.40 | <u>Dr Benjamin Aymard</u> ¹ , Mr Urbain Vaes ¹ , Dr Marc Pradas ² , Professor Serafim Kalliadasis ¹ | Dr. Mara Florea ¹ , Zalikha Murni Abdul Hamid ^{2,3} , Dr. Sascha Fliegener ² , PD Dr. Jörg Hohe ² , Prof. Dr. Jürgen Rühe ¹ | Chloé Rodriguez ¹ , Dr Vicente Torres Costa ¹ , Dra Virginia Cebrian ² , Dra Cristina Gómez Abad ² , Dr Oscar Ahumada ² , Dr Miguel Manso ¹ | Mr Martin Legrand ¹ , Mr Heyu Wang ¹ , <u>Dr Eral Bele</u> ¹ |
| | ¹Imperial College London, London, United Kingdom, ²The Open University, Milton Keynes, United Kingdom | ¹ Department of Microsystems Engineering – IMTEK, University of Freiburg, Freiburg, Germany, ² Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany, ² Karlsruhe Institute of Technology, Karl- sruhe, Germany | ¹Universidad Autónoma Of Madrid, Madrid, Spain, ²Mecwins, Madrid, Spain | ¹ University College London, Department Of Mechanical Engineering, London, United Kingdom |
| | LARGE SCALE DISSIPATIVE PARTICLE DYNAMICS SIMULATIONS OF BLOOD FLOW | CHEMICAL MODIFICATION OF FIBRE-MATRIX INTERFACES FOR ENHANCING THE STRENGTH AND DURABILITY OF LIGHTWEIGHT MATERIALSPART II: MECHANICAL CHARACTERIZATION | HYBRID PLASMONIC-POLYMER MATERIALS FOR BIOIMAGING | STAG BEETLE ELYTRA EXHIBITS NON SYMMETRIC BENDING PROPERTIES USING GRADED MULTI- LAYERS |
| 16.00 | Ms. Athena Economides ¹ , Dr. Sergey Litvinov ¹ , Mr. Dmitry Alexeev ¹ , Ms. Lina Kulakova ¹ , Mr. Lucas Amoudruz ¹ , Dr. Panagiotis Hadjidoukas ¹ , Prof. Petros Koumoutsakos ¹ | Zalikha Murni Abdul Hamid ¹³ , Dr. Sascha Fliegener ¹ , Dr. Mara Florea ² , Prof. Dr. Jürgen Rühe ² , PD Dr. Jörg Hohe ¹ | Dr. Dorleta Jimenez De Aberasturi ^{1,2} , Malte Strozyk ^{1,3} , Prof. Lus M. Liz Marzán ^{1,2,4} | <u>Dr. Lakshminath Kundanati</u> ', Stefano Signetti ¹ , Michele Menegon ² , Nicola M. Pugno ¹³⁴ |
| | ¹ Computational Science and Engineering Laboratory, ETH Zürich, Zürich, Switzerland | ¹ Fraunhofer Institute for Mechanics of Materials IWM, Freiburg, Germany, ² Department of Microsystems Engineering – IMTEK, University of Freiburg, Freiburg, Germany, ³ Karlsruhe Institute Of Technology, Karlsruhe, Germany | CiCbiomaGUNE, San Sebastian-Donostia, 20014, Spain, 'Biomedical Research Networking Center in Bionegnienering Biomaterials and Nanomedicine, Ciber-BBN, San Sebastian-Donostia, 20014, Spain, 'Department of Chemistry, University of Liverpool, Liv- erpool L69 'ZD, United Kingdom, 'Nerbasque, Basque Foundation for Science, Bilbao, 48013, Spain | "Laboratory of Bio-inspired and Graphene Nanomechanics, Department of Civil, Environmental and Mechanical Engineer- ing, University of Frento, via Mesiano 77, 1-81323, Trento, Italy, "MUSE Science Museum, corso del Lavoro e della Scienza 3, 1-38122, Trento, Italy, "School to Engineering and Materials Science, Queen Mary University of London, Mile End Road, ET SNS, London, United Kingdom," Italian Space Agency, Via del Politecnico snc, 1-00133, Rome, Italy |
| | A NOVEL METHOD FOR THE MOLECULAR DYNAMICS SIMULATION OF POLYMERIZATION WITH EMISSION OF A SIDE-PRODUCT | EXPERIMENTAL DETERMINATION OF THERMAL RESIDUAL STRESSES IN CFRP-STEEL HYBRID MATERIALS | SURFACE ENHANCED RAMAN SCATTERING FROM GOLD CROWNED HEXAGONAL CLOSE PACKED SI SUBMICROMETER PILLARS | UNRAVELING THE RAPID SELF-ASSEMBLY OF CELLULOSIC FIBERS FROM MISTLETOE VISCIN |
| 16.20 | Jakub Krajniak ¹ , Sudharsan Pandiyan ² , Zidan Zhang ² , Eric Nies ² , Giovanni Samaey ¹ | M.Eng. Stefan Schmidt ¹ , Prof. DrIng. Joachim Hausmann ¹ | MSc Paola Pellacani¹², PhD Carlo Morasso², PhD Lucia Fornasari², PhD Franco Marabelli³, Phd Miguel Manso Silvan¹ | Nils Horbelt ¹ , Dr. Michaela Eder ¹ , Prof. Dr. Peter Fratzl ¹ , Dr. Matthew J. Harrington ¹ |
| | ¹ Department of Computer Science, KU Leuven, Leuven, Belgium, ² Department of Chemistry, KU Leuven, Leuven, Belgium | 'Institute for Composite Materials, Kaiserslautern, Germany | ¹Universidad Autónoma De Madrid, Madrid, Spain, ²Fondazione Don Carlo Gnocchi, Milan, Italy, ³Universita Degli Studi Di Pavia, Pavia, Italy | 'Max Planck Institute Of Colloids And Interfaces, Potsdam, Germany |
| | MULTISCALE ANALYSIS OF REACTIVE TRANSPORT PROCESSES: A TOOL TO MONITOR THE MICRO- STRUCTURE AND THE PROPERTIES OF CHEMICAL VAPOR DEPOSITED FILMS | ELECTRICALLY CONDUCTIVE AND DAMAGE TOLER- ANT FIBRE-HYBRID-COMPOSITE DEVELOPED AS SKIN MATERIAL IN AERONAUTICS | RENATURATED COLLAGEN GELS IN PHYSIOLOGICAL SOLUTION CONDITIONS: A QUANTITATIVE DESCRIPTION OF THEIR BIOMECHANICAL PROPERTIES | |
| 16.40 | Dr. Ioannis Aviziotis ¹² , Dr. Thomas Duguet ² , Dr. Constantin Vahlas ² , <u>Prof. Andreas G. Boudouvis</u> ¹ | Prof. Joachim Hausmann ¹ , Benedikt Hannemann ¹ , Dr. Sebastian Schmeer ¹ , Prof. Ulf P. Breuer ¹ | Assoc. Prof. Amalia Aggeli ¹ , PhD Student Anastasia Papadopoulou ¹ , Ms ME Naoum ¹ , PhD Student Elefther- ios Rizos ¹ , Dr. TB Goudoulas ¹ | |
| | 'School of Chemical Engineering, National Technical University of Athens, Athens, Greece, ² CIRIMAT, CNRS, Université de Toulouse, Toulouse, France | ¹ Institute for Composite Materials, Kaiserslautern, Germany | 'School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece | |
| | | | CHITOSAN-ENGINEERED METAL-ORGANIC FRAMEWORKS AS ORAL DRUG NANOCARRIERS Dr Patricia Horcajada', Dr Tania Hidalgo', Dr Monica Gimènez-Marques', Dr Elena Beltidó', Dr Jose Avila', Dr Mania del Carmen Asensio', Dr Fabrice Salles', Dr Mania Victoria Lozano', Mrs Mazheva Guillevic', Dr Mania Victoria Lozano', Mrs Mazheva Guillevic', Dr Rosana Simon-Vaguez', Prof Africa Gonzalez-Fernandez'. | |
| 17.30 | | | Ur Nosana Simon-Vazquez", Prof Africa Bonzalez-Fernandez". Dr Christlan Serre", Prof Maria Jose Alonso' Imdeo Energy, Mostoles, Spain, "Institut Lavoisier, CNRS UMR 8180, Université de Versailles Sain-Quentin-en-Yvellines, Ver- sailles, France, "Synchroton SOLE IL 8 Université Paris-Soclay, 6/f-sur-Yvelte Cedex, France, "310CM - UMR\$253 Equipe AIME, Université Monpleiler II, Montpleiler, France, "Immunology, Biomedical Research Center (CINBIO) and Institute of Biomedical Research of You (BIBV), Universited de Vigo, Vigo, Spain, Nanobidra, Center for Molecular Medicine and Chronic Diseases (CIMUS), Universidad de Santiago de Compostela, Santiago de Compostela, Spain | |

| Symposium | AT ZUT/ | A6 | A7 | А9 |
|---------------|---|---|---|--|
| Room | 3-21/M1 | CR I Hall/M2 | Rehearsal Room 5.17 /M1 | I-11/M1 |
| Session Title | Nanostructures | Re-entry, thermal | Transparent Conductive Oxides | Block Copolymer Membranes |
| Chairperson | Alicia De Andrés | Barrie Dunn | Maria Dinescu | Volker Abetz |
| | KEYNOTE/INVITED CARBON-BASED HETEROSTRUCTURES FOR SINGLE-MOLECULE INVESTIGATIONS | KEYNOTE/INVITED NASA'S ADVANCED TPS MATERIALS AND TECHNOLOGY DEVELOPMENT: MULTI-FUNCTIONAL MATERIALS AND SYSTEMS FOR SPACE EXPLORATION | ELECTRONIC AND STRUCTURAL CHARACTERIZATION OF BARRIER-TYPE AMORPHOUS ALUMINIUM OXIDE | KEYNOTE/INVITED DUAL STIMULI-RESPONSIVE MEMBRANOUS SYSTEM WITH MULTIPLE ON-OFF GATES |
| 17.30 | | | Fabio Evangelisti ¹ , Michael Stiefell, Olga Guseva ¹ , Rachel Partovi-Nial ² , Roland Hauert ¹ , Erwin Hack ¹ , Lars P. H. Jeurgens ¹ , Patrik Schmutz ¹ , <u>Claudia Can- cellieri</u> ¹ , Francesco Ambrosio ² , Alfredo Pasquarello ² | |
| | Dr Matteo Palma¹ | Dr. Ethiraj Venkatapathy', Dr. Jay Feldman', Dr. Donald Ellerby', Mr. Paul Wercinski', Ms. Robin Beck' | Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland, 'Chaire de Simulation à l'Exhelle Atomique (CSEA), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland | Ms Bomyi Lee, Prof. <u>Jin Kon Kim</u> ¹ |
| | ¹ Materials Research Institute and School of Biological & Chemical Sciences, Queen Mary University of London, London, United Kingdom | 'NASA Ames Research Center, Moffett Field, United States | ADDITIVES EFFECTS ON TIN OXIDE MATERIAL DEVELLOPED ON SIO ₂ Substrate | Pohang University Of Science And Technology, South Korea |
| 17.50 | | | Dr. Abdallah Ouerdane | |
| | | | 'University Djilali Bounaama, Khemis Miliana, Algeria, 'Ecale Nationale Polytecnique Labmat, OranEs Senia, Algeria | |
| | VISIBLE-NIR DRIVEN PHOTOCATALYSIS ASSISTED BY CARBON NANOSENSITIZERS | DEVELOPMENT OF THE EUROPEAN CONFORMAL ABLATIVE-CHARRING MATERIAL AND PERFOR- MANCES ASSESSMENT | AN AEROSOL ROUTE TO PRODUCE NIO/ZnO NANOCOMPOSITE PARTICLES | ENHANCEMENT OF THE PROPERTIES OF THERMALLY REARRANGED POLYMERS |
| 18.10 | Ms. M.C. Ortega-Liebana ¹² , PhD J.L. Hueso ¹² , Dr. N. Mas¹, Ms Ane Larrea ¹² , Dr. Victor Sebastian ¹² , Dr. Carlos Bueno-Aligio ¹² , Dr. Reyes Mallada ¹² , Dr. Gema Martinez ¹² , Dr. King Lun Yeung ³ , Professor Jesus Santamaria ¹² | Gregory Pinaud ¹ , Jerome Bertrand ¹ , Mathieu Desbor- des ¹ , Jorge Barcena ² , George Vekinis ³ | Research Asist Duyqu Yesittepe', Serzat Safaltın', Sebahattin Gürmen ¹ | Alberto Tena, Sofia Rangou, Sergey Shishatskiy, Volkan Filiz, Torsten Brinkmann, <u>Volker Abetz</u> ¹ |
| | Department of Chemical Engineering. Aragon Institute of Nanoscience (IAN), University of Zaragoza, Campus Rio Ebro-Edificia (H.D. (P. Deta Mariana Esquillor S/N, 50018, Zaragoza, Spain, *Networking Research Center on Bioengineering, Biomaterials and Nanomedicine, CIBER-BBN, 28029, Madrid, Spain, *Department of Chemical and Biomolecular Engineering, The Hong Kong University of Science and Technology (HKUST), Clear Water Bay, Kowloon, Hong Kong, China | ¹ Airbus Safran Launchers, , France, ² Tecnalia, Mikeletegi Pasealekua 2, E-20009 Donostia-San Sebastián, Spain, ³ NCSR Demokritos, Agia Paraskevi Attikis, 15341, Greece | ¹Istanbul Technical University, Faculty of Chemical and Metallurgical Engineering, Department of Metallurgical and Materials Engineering, 34469 Istanbul, Turkey | ¹ Universität HamburgInstitut für Physikalische Chemie |
| | SIZE DEPENDENCE OF THE CRITICAL PRESSURE OF CARBON NANOTUBES UNDER HYDROSTATIC PRESSURE | POROSITY INFLUENCE ON THE THERMAL AND ABLA- TIVE BEHAVIOUR OF CARBON PHENOLIC ABLATORS UNDER SEVERE AEROTHERMAL FLUX | HIGHLIGHT PROPERTIES OF Zno Nanorods Grown ON Patterned Substrates | FROM METALLIC GYROID STRUCTURES TO PIEZOELECTRIC NANOPOROUS NETWORKS |
| 18.30 | Dr. Markus Hartmann¹ | Emeline Arnaud ¹² , Prof. Damien Halm ¹ , Dr. Denis Bertheau ¹ , Dr. Julien Beaudet ² | Jan Grym¹, Roman Jackiv¹, Jan Vaniš¹, Antonín Schenk¹, Šárka Chlupová¹, David Roesel¹ | Katja Loos¹ |
| | 'Faculty Of Physics, University Of Vienna, Vienna, Austria | ¹ Institut P' - ISAE/ENSMA, Chasseneuil Du Paitau, France, ² DCNS Research, Bouguenais, France | 'Institute of Photonics and Electronics of the CAS, Prague, Czech Republic | 'University Of Groningen, Groningen, The Netherlands |
| | NEW PROCESSING OPTIONS FOR ULTRA-STRONG CARBON NANOTUBE FIBRES USING CARBON ION IRRADIATION AND DEPOSITION | CHARACTERISATION OF THE BEHAVIOUR OF TYPICAL SPACECRAFT MATERIALS EXPOSED TO RE-ENTRY ENVIRONMENT CONDITIONS | BULK 8-Ga ₃ 0 ₃ single crystals with low defect density for future high power electronics | NOVEL DIBLOCK COPOLYMERS AS MATERIAL FOR ISOPOROUS ULTRAFILTRATION MEMBRANES |
| 18.50 | Dr. Daniel Mulvihill', Dr. Nathan O'Brien ² , Prof William Curtin ³ , Prof Michael McCarthy ² | Mr Benoit Bonvoisin¹, Mr Thorn Schleutker², Dr. Ali Gülhan², Dr Erhard Kaschnitz³, Mr Tobias Lips⁴, Mr Adam Pagan¹, Mr Bartomeu Massuti-Balestter³, Dr. Georg Herdrich³, Dr. Jim Merrifield⁴, Dr. James Beck¹, Mr Jean Baptiste Gouriet³, Dr. Olivier Chazot², Mr. Tiago Soares¹, Dr. Tommaso Ghidini¹ | Vladislav Bugrov ¹ . Vladimir Nikolaev ¹²³ , Alexey Pechnikov ¹² , Pavel Shirshnev ¹ , Alexei Romanov ¹³ | Janina Gaalken [†] , Mathias Ulbricht [†] |
| | 'School of Engineering, University Of Glasgow, Glasgow, United Kingdom, 'Department of Mechanical, Aeronautical and Biomedical Engineering, University of Limerick, Limerick, Ireland, 'Institute of Mechanical Engineering, EPFL Switzerland, Lausanne, Switzerland | **ESA-ESTEC. Noordwijk, Netherlands, **German Aerospace Center (IDLR). Cologne, Germany, **Osterreichisches Gießerei Institut (IGI), Leoben, Austria. **Hyperschall Technology Göttingen (HTG). Katlenburg-Lindau, Germany, **Universität Stuttgart Institut für Raumfahrt systeme (IRS). Stuttgart. Germany. **Fluid Gravity Engineering Ltd. Emsworth. England. **Belstead Research Ltd. Ashford. England. **Von Karman Institute (IVKI). Rhode Saint Genese. Belgium | 'ITMO University, Saint-Petersburg, Russian Federation, 'Perfect crystals LLC, Saint-Petersburg, Russian Federation, ³ loffe Physical Technical Institute, Saint-Petersburg, Russian Federation | ¹ Universität Duisburg-Essen, Lehrstuhl für Technische Chemie II, Essen, Germany |
| | | BLACK FUNCTIONALISED SURFACES BY USING LASER TECHNOLOGIES | | NANOPOROUS SEPARATION MEMBRANES FROM MICROPHASE-SEPARATED MULTIBLOCK COPOLYMERS |
| 19.10 | | Materials And Processes Expert Asensio Zapata ¹ . Mechanical Products & Engineering GE Manuela Suess ² , Mechanical Products & Engineering GE Verena Strobel ² | | Jan Wieczorek ¹ , Prof. Dr. Mathias Ulbricht |
| | | ¹ Airbus Defence&space, Toulouse, France, ² Airbus Defence&space, Friedrichshafen, Germany, ³ Airbus Defence&space, Friedrichshafen, Germany | | ¹ University of Duisburg-Essen, Essen, Germany |
| | | AEROGEL MATERIALS FOR MARS EXPLORATION | | |
| 19.30 | | Helena Rocha ¹ , Dr. Ugo Lafont ¹ , Dr. Christopher Semprimoschnig ¹ | | |
| | | ¹ ESTEC-ESA, Materials' Physics & Chemistry Section, Noordwijk, Netherlands | | |

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| Symposium | B1 | B2 | В4 | B7 |
|---------------|--|---|--|---|
| Room | Maurice Saltiel Hall I/M2 | Aimilios Riadis Hall/M2 | 3.20/M1 | CR III Hall/M2 |
| Session Title | Thermomechanical Processing II | Processing and Manufactuing of Light Metals | Steel and High-Entropy Alloys | Membranes, Adsorption, and Separations Phenomena |
| Chairperson | Ernst Gamsjäger | Norbert Hort | Andrea Bachmaier | Camille Petit |
| | HIGHLIGHT ADVANCED HIGH STRENGTH STEEL BASED ON VANADIUM CARBIDE PRECIPITATION | HIGHLIGHT IMPACT WELDING OF LIGHT METALS: A CIVILIZED BUT EXTREME APPROACH | HIGHLIGHT STRENGTH AND SERVICE PROPERTIES OF NANO- STRUCTURED ASTM F138 STAINLESS STEEL AFTER HIGH PRESSURE TORSION | ADSORPTION OF RARE EARTH METAL IONS BY POST-SYNTHESIS FUNCTIONALIZED MIL-101 IN WATER |
| | Prof. Mark Rainforth! Dr Alfonce Chamisa!, Dr Jo Sharp! Mr Andrew Patterson!, Dr Peng Gong!, Dr Francis Sweeney!, Dr Arjan Rijkenberg² | <u>Dr. Anupam Vivek</u> ¹, Dr. Ali Nissari¹, Yu Mao¹, Taeson Lee¹, Geoff Taber¹, Prof. Glenn Daehn¹ | Prof. Sergey Dobatkin ¹² , Dr. Olga Rybalchenko ¹² , Aleksei Tokar ² , Natalia Martynenko ² , Prof. Vladimir Terent'ev ¹ , Dr. Dmitriy Prosvirnin ¹ , Dr. Andrea Kliauga ³ , Dr. Nariman Enikeev ⁵ , Prof. Nick Birbilis ⁴ , Prof. Yuri Estrin ^{2,6} | Prof. Wha-seung Ahn', Ms. Yuri Lee' |
| 17.30 | ¹ The University Of Sheffield. Sheffield. United Kingdom. ² Tata Steel, Umuiden, The Netherlands | Department Of Materials Science And Engineering, The Ohio State University, Columbus, United States | 'A.A. Baikov Institute Of Metallurgy And Materials Science Of Ras, Moscow, Russian Federation, *National University of Science and Technology *MISS*, Laboratory of Hybrid Nanostructured Materials, Moscow, Russian Federation, *Federal University of San Carlos, San Carlos, Brazil, *Ufla State Aviation Technical University, Institute for Physics of Advanced Materials, Ufla Russian Federation, *Saint Petersburg State University, Laboratory for Mechanics of Bulk Nanostructured Materials, Saint-Petersburg, Russian Federation, *Opepartment of Materials Science and Engineering, Monash University, Melbourne, Australia | ¹Inha University, Incheon , South Korea |
| | EFFECT OF STRAIN ON PRECIPITATION CHARACTERISTICS IN TI-Mo ALLOYED STEEL | EXPERIMENTAL AND NUMERICAL INVESTIGATION OF RAPID SOLIDIFICATION OF AL-ALLOYS | APPROACHING THE MAXIMUM STRENGTH IN CARBON STEELS USING HIGH PRESSURE TORSION | HIGHLIGHT WATER STABLE METAL-ORGANIC FRAMEWORKS (MOFs) FOR CO ₂ CAPTURE |
| 17.50 | Mr Ilias Bikmukhametov ¹ , Dr. Peter Hodgson ¹ , Dr. Jiangting Wang ¹ , Dr. Hossein Beladi ¹ , Dr. Ilana Timokhina ¹ | Dr. Jonas Valloton ¹ , Dr. Abdoul-Aziz Bogno ¹ , Prof. Hani Henein ¹ , Prof. Dieter Herlach ² , Dr. Charles-André Gandin ³ | Timo Mueller ¹ , Dr. Andrea Bachmaier ¹ , Prof. Dr. Reinhard Pippan ¹ | Dr Dan Zhao¹ |
| | 'Deakin University, Geelong, Australia | 'University Of Alberta, Edmonton, Canada, ² Deutsches Zentrum für Luft- und Raumfahrt, Cologne, Germany, ³ MINES ParisTech, Sophia Antipolis, France | 'Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria | 'National University Of Singapore, Singapore |
| | INFLUENCE OF V(C,N) PRECIPITATES ON HOT DUCTILITY OF A V-MICROALLOYED BAINITIC STEEL | NON-DENDRITIC AL-SI ALLOYS BY SIMPLIFIED RHEOCASTING WITH MECHANICAL STIRRING | STRENGTH PROPERTIES OF AUSTENITIC STAINLESS STEELS SUBJECTED TO LARGE STRAIN WARM ROLLING | NanoMOFS IN MIXED-MATRIX MEMBRANE FOR CO ₂ CAPTURE |
| 18.10 | Mr. Mohammad Saadati¹, Dr. Davood Shahriari¹, Prof. Mohammad Jahazi¹ | <u>Dr. Jose Federico Chavez</u> ¹ , M.Sc. Alfredo Hernandez ² | Miss Zhanna Yanushkevich¹, Dr Andrey Belyakov¹, Dr Rustam Kaibyshev¹ | Marvin Benzaqui ^{1,2} , Prof Nathalie Steunou ¹ , Dr Christian Serre ² |
| | ¹ Ecole de Technologie Superieure, Montreal, Canada | 'Instituto Politécnico Nacional - ESIQIE, Mexico City, Mexico, [*] Tecnológico de Estudios Superiores de Coacalco, Coacalco, Mexico | Belgorod National Research University, Belgorod, Russian Federation | 'Institut Lavoisier de Versailles, Versailles, France, 'Institut des Matériaux Poreux de Paris, Paris, France |
| | EFFECT OF AUSFORMING TEMPERATURE ON TMT OPTIMIZATION IN G91 | NUMERICAL PREDICTIONS OF POTENTIAL PROBLEMS OF CLADDING PROCESSES BY TWIN-ROLL CASTING | CHARACTERIZATION OF A SEVERELY PLASTICALLY DEFORMED FEMnCoCr MEDIUM ENTROPY ALLOY | UNDER GAS-PRESSURE: NON-AMBIENT CRYSTAL- LOGRAPHY ON HIGHLY STABLE PYRAZOLATE-BASED MOFs |
| 18.30 | Mr Javier Vivas ¹ , <u>Dr Carlos Capdevila</u> ¹ , Dr Jose Antonio Jimenez ¹ , <u>Dr David San Martin¹, Dr Marta</u> Serrano ² , <u>Dr Mercedes Hernandez-Mayoral²</u> | Prof. Jong-jin Park [†] | <u>Dr. Bernhard Völker</u> ¹, Dr. Anton Hohenwarter¹ | Dr. Valentina Colombo ¹ . Prof. Angelo Sironi ¹ |
| | [†] CENIM-CSIC, Madrid, Spain, ² CIEMAT, Madrid, Spain | 'Hongik University, Seoul, South Korea | ¹ Department Materials Physics, Montanuniversität Leoben, 8700 Leoben, Austria | ¹Università degli Studi di Milano, Milano, Italy |
| | EFFECT OF BORON ON MICROSTRUCTURE AND PROPERTIES OF THE PIPE STEEL | HIGHLIGHT COST-EFFECTIVE FABRICATION OF METAL MATRIX COMPOSITES (MMCs) USING HIGH SHEAR TECHNOLOGY | EFFECT OF CARBON CONTENT AND ANNEALING TREATMENTS ON THE MECHANICAL PROPERTIES AND THE MICROSTRUCTURE IN NANOCRYSTALLINE CrmnFeconi alloys doped with Carbon | MONOLITHIC METAL-ORGANIC FRAMEWORK: TOWARDS BREAKING DOE TARGETS FOR METHANE UPTAKE |
| 18.50 | Dr Anatoly Babenko ¹² , Dr Vladimir Zhuchkov ¹² , Dr Natalia Selmenskikh ¹ , <u>Dr Alena Upolovnikova</u> ¹ | Dr Xinliang Yang ¹ , <u>Mr Eric Nyberg</u> ¹ , Prof. Zhongyun Fan ¹ | Benjamin Schuh ¹ , Dr. Bernhard Völker ¹ , Dr. Verena Maier-Kiener ² , Dr. Francisca Mendez-Martin ² , Dr. Jiehua Li ² , Dr. Anton Hohenwarter ¹ | <u>Dr Tian Tian</u> ¹, Mr Zhixin Zeng², Miss Diana Vulpe¹, Dr Mirian Casco², Professor Joaquin Silvestre-Albero³, Professor Jin-Chong Tan², Dr Peyman Moghadam¹, Dr David Fairen-Jimenez¹ |
| | Institute Of Metallurgy Ural Branch Of The Ras, Ekat- erinburg, Russian Federation, ³ Ural Federal University named after the first President of Russia B.N. Yeltsin, Ekaterinburg, Russian Federation | BCAST, Brunel University London, Uxbridge UB8 3PH, UK | Department of Materials Physics, University of Leoben and Erich Schmid Institute of Materials Science, Austri- an Academy of Sciences, Leoben, Austria, Department of Physical Metallurgy and Materials Testing, University of Leoben, Leoben, Austria, Institute of Casting Re- search, University of Leoben, Leoben, Austria | University of Cambridge, Cambridge, United Kingdom, ² University of Oxford, Oxford, United Kingdom, ² Universidad de Alicante, Alicante, Spain |
| | EFFECT OF REHEATING TEMPERATURE AND COOLING TREATMENT ON THE MICROSTRUCTURE, TEXTURE AND IMPACT TRANSITION BEHAVIOUR OF HEAT TREATED NAVAL GRADE HSLA STEEL | HIGH MODULUS ALUMINIUM-BASED NANOCOMPOS- ITES: NEW REQUIREMENT OF AUTOMOTIVE MARKET | THERMALLY ACTIVATED PLASTICITY OF COARSE GRAINED AND NANOCRYSTALLINE Cocrfenimm High entropy alloy at low temperatures | NOVEL NI-IRMOF-74 POST-SYNTHETHICALLY FUNCTIONALIZED FOR H ₂ STORAGE APPLICATIONS |
| 19.10 | Mr. Md. Basiruddin Sk¹, Dr. Abhijit Ghosh¹. Mr. Nirmalya Rarhi², Dr. R. Balamuralikrishnan², Dr. Debalay Chakrabarti¹ | Dr. Sajjad Amirkhanlou ¹ , Dr. Yijie Zhang ¹ , Dr. Shouxun Ji ¹ | Dr. Aleksey Podolskiy ¹ , Dr. Elena Tabachnikova ¹ , Prof. Erhard Schafler ² , Dr. Mikhail Tikhonovsky ³ , Prof. Michael Zehetbauer ² | Dr. Gisela Orcajo ¹ , PhD. Student Helena Montes- Andrés ¹ , Dr. Carmen Martos ¹ , Dr. Juan Angel Botas ¹ , <u>Prof. Guillermo Calleja</u> ¹ |
| | ¹Indian Institute Of Technology Kharagpur, Metallurgi- cal And Materials Engineering Department, lit Kharag- pur, Kharagpur, India ²Defence Metallurgical Research Laboratory, Kanchambagh, P.O. Hyderabad, India | ¹ BCAST, Brunel University London, London, United Kingdom | ¹ B. Verkin Institute for Low Temperature Physics & Engineering, 47 Nauky Ave. 61103, Kharkiv, Ukraine. Physics of Nanostructured Materials, Faculty of Physics University of Vienna. Bottzmanngasse 5, A-1090. Wien, Austria. National Science Center, Kharkov Institute of Physics and Technology, 1 Akademicheskaya Str., 1108, Kharkiv, Ukraine | 'Department of Chemical and Energy Technology, Universidad Rey Juan Carlos, Móstoles, España |
| 19.30 | | | | |
| 19.30 | | | | |



| Symposium | B8 | В9 | C1 | C3 |
|---------------|---|---|---|---|
| Room | Conference Room 1/M1 | I-08/M1 | Friends of Music Hall/M1 | Maurice Saltiel Hall III/M2 |
| Session Title | Defects and multi-phase alloys | Crystallization and structural inhomgeneities in BMGs | Surface engineering and modifications 1/3 -Corrosion | Densification processes |
| Chairperson | Livio Battezzati | K. Shamlaye, K. Georgarakis | Kim Dogeun, Elias Aperathitis | Sergio Mestre |
| | DEFORMATION MECHANISMS OF FeCoCrNI HIGH ENTROPY ALLOY: IN SITU NEUTRON AND SYNCHROTRON INVESTIGATION | HIGHLIGHT STRUCTURAL REORDERING AND CONTROLLED NANOCRYSTALLIZATION IN METALLIC GLASSES | HIGHLIGHT INCREASED CORROSION RESISTANCE BY SURFACE MODIFICATION USING INTENSE PULSED ELECTRON BEAMS | HIGHLIGHT LIQUID PHASE SINTERING OF PM STEEL WITH MASTER ALLOY CONTAINING BORON |
| 17.30 | Dr Biao Cai ¹ , Dr Bin Liu ² , Dr Yiqiang Wang ¹ , Dr Saurabh Kabra ³ , Dr Kun Yan ¹ , Prof Peter Lee ¹ , Prof Yong Liu ² | Dr. Baran Sarac', Dr. Andrea Bernasconi ² , Prof. Mihai Stoica ³ , Prof. Jürgen Eckert ⁴ | Dr. Alfons Weisenburger ¹ , Dr. Adrian Jianu ¹ , Dr. Annette Heinzel ¹ , Wladimir An ¹ , Dr. Renate Fetzer ¹ , Fabian Lang ¹ , Frank Zimmermann ¹ , Prof. Georg Mülter ¹ | Mr Maheswaran Vattur Sundaram ¹ , Dr. Yiming Yao ¹ , Dr. Eduard Hryha ¹ , Prof. Lars Nyborg ¹ |
| | ¹ University Of Manchester/materials. Oxford. United Kingdom. ² State Key Laboratory for Powder Metallurgy. Central South University. Changsha. China. ¹ SIS Facility. Rutherford Appleton Laboratory. Didcot. United Kingdom | Erich Schmid Institute Of Materials Science. Leoben, Austria, University of Pavia, Pavia, Italy, "ETH Zurich, Zurich, Switzerland, "Montanuniversität Leoben, Leoben, Austria | ¹ Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen | ¹ Chalmers University of Technology, Gothenburg, Sweden |
| | PHASE DECOMPOSITION OF A SINGLE-PHASE AITIVND HIGH-ENTROPY ALLOY AFTER SEVERE PLASTIC DEFORMATION AND ANNEALING | A SYNCHROTRON RADIATION STUDY OF DEALLOYING AMORPHOUS ALLOYS | STATEGIES TO CORRELATE THE MICROSTRUCTURE OF CHROMIUM BASED AND CHROMIUM FREE CON- VERSION LAYERS ON ALUMINIUM ALLOY TO THEIR ELECTROCHEMICAL PROPERTIES | MATERIAL SOLUTIONS AND PROCESS ROUTES FOR HIGH PERFORMANCE PM STEEL COMPONENTS |
| 17.50 | Benjamin Schuh ¹ , Dr. Bernhard Völker ¹ , Dr. Jiehua L ^P . Dr. Verena Maier-Kiener ² , Dr. Juraj Todt ⁴ , Dr. Anton Hohenwarter ¹ | Dr Sara Goberna Ferrón¹, Dr. Eirini Maria Pascha- lidou², Prof. Livio Battezzati², Dr. Gavin Vaughan¹ | Mr Quentin BOYER!, Dr. Sandrine DULUARD!, Dr. Jean-Pierre BONINO!, Dr. Benoît FORP, Dr. Florence ANSART! | Ph.D Dimitris Chasoglou ¹ |
| | ¹ Department Of Materials Physics. University Of Leoben, Leoben, Austria. ² Chair of Casting Research, University of Leoben, Leoben, Austria. ³ Department of Physicial Metallurgy and Materials Testing, University of Leoben, Leoben, Austria. ⁴ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria | ¹ European Synchrotron Radiation Facility, Grenoble, France, ² Dipartimento di Chimica, Universita di Torino, Torino, Italy | ¹ CIRIMAT. Université de Toulouse, INPT.UPS, CNRS. Université Toulouse 3 Paul Sabatier, Toulouse, France, ² Mecoprotec Industries, Muret, France | ¹ Höganäs AB, Höganäs, Sweden |
| | THE SCANDIUM EFFECT IN HIGH-ENTROPY ALLOYS | PROCESSING AND MICROSTRUCTURE OF Fe-BASED BULK METALLIC GLASSES | ROLE OF ANODIZATION TREATMENT FOR IN-SITU GROWTH OF LDH-NANOCONTAINERS USED FOR ACTIVE CORROSION PROTECTION OF ALUMINUM ALLOY AA2024 | CERAMICS BY DETONATION OF HIGHLY ENERGETIC MATERIALS |
| 18.10 | <u>Miss Sephira Riva</u> ', Prof Stephen G.R. Brown', Dr Nicholas P. Lavery', Dr Kirill V. Yusenko' | <u>Dr. Marek Smaga',</u> Shayan Deldar ¹ , Prof. Tilmann Beck ¹ , Dr. Mariusz Hasiak ² , Prof. Jerzy Kaleta ² | Dr. Maria Serdechnova ¹ , Dr. Marta Mohedano ² , Dr. Sergey Karpushenkov ³ , Dr. Carsten Blawert ¹ , Prof. Dr. Mikhail Zheludkevich ¹ | <u>Dr. Pierre GIBOT</u> ', Dr. Denis SPITZER ¹ |
| | ¹ Callege of Engineering. Swansea University, Swansea. United Kingdom | ¹ Institute of Materials Science and Engineering, Kaiserslautern, Germany, ² Department of Mechanics and Materials Science, Wroclaw, Poland | ¹ Helmholtz Zentrum Geesthacht, Geesthacht, Germany, ² Universidad Complutense Madrid, Madrid, Spain, ³ Belarusian State University, Minsk, Belarus | ¹ Laboratory of Nanomaterials for Systems under Extreme Stresses UMR 3208 CNRS/ISL/UNISTRA, French German Research Institute of Saint-Louis, 5 rue du General Cassagnou BP 70034 – 68301 Saint-Louis, France |
| | AIC:FeNimn/Gr HIGH ENTROPY COMPOSITE PROCESSED BY MECHANICAL ALLOYING AND SPARK PLASMA SINTERING | YTTRIUM ADDITION IN THE Cu-Zr-Ti TERNARY SYSTEM | ANODIZING OF MAGNESIUM IN ALKALINE MEDIA: A DESCRIPTION OF THE MECHANISMS LEADING TO THE DIELECTRIC BREAKDOWN | SINTERING OF CUCF COMPOSITES FOR CAPACITIVE SWITCHING |
| 18.30 | Dr Gabriela Popescu ¹ . Dr. Ioana Csaki ¹ . Dr. Cristian Aurelian Popescu ¹ . PhD student Lucian Rosu ¹ . Dr. Dumitru Mitrica ² . Dr. Vasile Soare ² | Oriane Baulin ¹ , Damien Fabrègue ¹ , Sébastien Gravier ² , Jean-Marc Pelletier ¹ | Delphine VEYS-RENAUX ¹ , <u>Alexandre ZIMMER</u> ¹ , Nicolas STEIN ¹ , Emmanuel ROCCA ¹ | Dr. Anthony Papillon ¹ , <u>Dr. Sophie Roure</u> ¹ , M.S. Melissa Chosson ¹ |
| | ¹ University Politehnica Bucharest, Bucharest, Romania, ³ National R&D Institute for Nonferrous and Rare Metals - IMNR, 102 Biruintei Blvd, Pan- telimon, Ilfov County, Romania, 077145, Romania | ¹ Mateis Laboratory, Lyon, France, ² SIMAP, GPM2, Grenoble, France | ¹Institut Jean Lamour - Université De Lorraine, France | ¹ Schneider Electric, Grenoble, France |
| | A PROPOSED SOLIDIFICATION SEQUENCE THEORY BASED ON EXPERIMENTAL AND PARAMETRIC MODELING DATA FOR VARIOUS REFRACTORY HIGH ENTROPY ALLOYS | DISSIMILAR STRUCTURE HETEROGENEITY IN U-BASED AMORPHOUS ALLOYS REVEALED BY NANOINDENTATION CREEP AND XAFS | A CHEMICAL VIEW OF CHROMATE CONVERSION COATING ON MACNESIUM ALLOYS EV31A: AN XPS AND AUGER SPECTROSCOPIES APPROACH | |
| 18.50 | <u>Dipl. Eng. Emmanuel Georgatis</u> ¹, Dipl. Eng. Anthoula Poulia¹, Dr. Alexander Karantzalis¹ | Assoc. Prof.Hai Bo Ke ¹ , Assoc. Prof. Huo Gen Huang ¹ , Hong Yang Xu ¹ , <u>Assitant Prof. Pei Zhang</u> ¹ , Peng Guo Zhang ¹ , Prof. Tian Wei Liu ¹ | Dr. Jean-Charles Dupin ¹ , Dr. Arnaud Uhart ¹ , Dr. Jean-Bernard Ledeuit ¹ , Prof. Hervé Martinez ¹ , Dr. Jérôme Frayret ¹ | |
| | ¹University Of Ioannina, Ioannina, Greece | ¹ Institute of Materials China Academy of Engineer- ing Physics, Mianyang, China | ¹ prem / Cnrs Umr5254, Pau, France | |
| | PRIORITY PROGRAMME "COMPOSITIONALLY COMPLEX ALLOYS - HIGH ENTROPY ALLOYS (CCA - HEA)" FUNDED BY GERMAN RESEARCH FOUNDATION (DFG) | URANIUM-INCLUDED BULK METALLIC GLASS MATRIX COMPOSITES | INFLUENCE OF CYCLIC OXIDATION IN MOIST AIR On Surface oxidation-affected zones | |
| 19.10 | "COMPOSITIONALLY COMPLEX ALLOYS - HIGH ENTROPY ALLOYS (CCA - HEA)" Prof. Dring. Uwe Glatzel | Assoc. Prof. Huagen Huang ¹ . Assoc. Prof. Haibo Ke ¹ , Dr. Pei Zhang ¹ | Phd Mattias Calmunger ¹ , Phd Robert Eriksson ¹ , Prof. Guocai Chai ¹² , Prof. Sten Johansson ¹ , Prof. Johan Moverare ¹ | |
| | University Bayreuth, Bayreuth, Germany | ¹ Institute Of Materials. China Academy Of Engineering Physics. Mianyang. China | ¹ Department of Management and Engineering, Linköping University, Linköping, Sweden, ² AB Sandvik Materials Technology R&D Center, Sandviken, Sweden | |
| | | | | |

| EUKUM Symposium | C4 | C5 | CB | C9 |
|--------------------|--|--|---|---|
| Room | Conference Room 4/M1 | Museum Hall /M2 | Library Hall/M2 | Conference Room 3/M1 |
| Session Title | Special products and new processes in Additive Manufacturing | Wetting | Non-Ferrous and Special Purpose Alloys | Various materials processing technologies |
| Chairperson | Eduard Hryha | Simeon Agathopoulos, Enrique Louis | Ji Zhang, Sheng Guo | Torsten Rabe |
| | MICROSTRUCTURE CHARACTERIZATION OF FUNCTIONALLY GRADED MATERIALS TI64-Mo BY CLAD PROCESS | FACTORS AFFECTING WETTING AND REACTIVITY IN SI/CERAMIC SYSTEMS AT ULTRAHIGH TEMPERATURES T>1450°C | CHARACTERIZATION OF NEW PLATINUM CASTING ALLOYS WITH APPLICATION IN JEWELRY PRODUCTION | ULTRASONIC PULTRUSION IN-LINE CURE MONITORING |
| 17.30 | Catherine Schneider-Maunoury ^{1,2} , Laurent Weiss ² , Philippe Acquier ¹ , Dider Boisselier ¹ . Pascal Laheurte ² | | Tanja Trosch ¹ | Christian Pommer ¹ |
| | ¹Irepa Laser, Strasbourg, France,²LEM3, Metz, France | Natalia Sobczak ¹ | ¹ Metals and Alloys, University Bayreuth, Bayreuth, Germany, ² Varinor, Delémont, Swiss | [†] Tu-braunschweig, Braunschweig, Germany |
| | LIGHT WEIGHTING IN METAL ADDITIVE MANUFACTURING | 'Foundry Research Institute, Centre for High Temperature Studies, Krakow, Poland | TENSILE DUCTILITY OF CAST TIAI ALLOY INFLUENCED BY THE RESIDUAL STRESS | IMPROVED MICROSTRUCTURE AND STRENGTH OF ADVANCED CERAMICS BY CONTROLLED SLURRY DESTABILIZATION AND ULTRASONIC ATOMIZATION |
| 17.50 | Prof. Dan Thoma', Professor Krishnan Suresh', Tej Kumar ^{1,} Buzz Rankouhi ¹ , Dr. William Aquite ¹ , Dr. David Gross ¹ | | Prof. Ji Zhang¹ | Dr. Torsten Rabe ¹ , Dr. Patrick Hoehne, Petra Kuchenbecker, Wolfgang Guether |
| | ¹ University Of Wisconcon, Madison, United States | | ¹China Iron And Steel Research Institute Group, Beijing, China | ¹ Federal Institute For Materials Research And Testing, Berlin, Germany |
| | ASSESSMENT OF ADDITIVELY MANUFACTURED LATTICE STRUCTURES FOR GAS TURBINE APPLICATIONS | AT THE TRIPLE LINE AND AT THE INTERFACE OF THE Ir-SI/C SYSTEM | THE APPLICATION OF CENTRIFUGAL ATOMIZATION METHOD FOR PREPARATION OF RAPIDLY SOLIDIFIED NA-Fe-B FLAKES USED FOR PRODUCTION OF PERMANENT MAGNETS | FABRICATION OF AA5083 – MULTIWALL CARBON NANOTUBES (MWCNTs) COMPOSITE METAL FOAM BY FRICTION STIR PROCESSING ROUTE (FSP) AND MICROSTRUCTURAL CHARACTERIZATION |
| 18.10 | M.Sc./eq, DiplIng, Lena Farahbodl ² , Prof. DrIng, habil. Gerd Witt ² , DrIng. Sebastian Piegert ¹ , DrIng. Christoph Haberland ¹ | Dr Donatella Giuranno ¹ . Mr Antonio Camarano ² , Dr Rada Novakovic ¹ , Dr Enrica Ricci ¹ . Prof Javier Narciso ² | <u>Dr. Mihael Bruncko</u> ¹² , Peter Kirbis ¹ , Ziga Erman ² , dr. Ivan Anzel ¹ | Phd Candidate Ioannis Papantoniou¹. MSc Helen Kyriakopoulou¹, Prof. Dimitrios Pantelis¹. Prof. Dimitrios Manolakos¹ |
| | "Siemens AG. Power and Gas. Berlin, Germany. 2University of Duisburg-Essen, Duisburg, Germany | "National Research Council (CNR)—Institute of Con- densed Matter Chemistry and Technologies for Energy (ICMATE), Via De Marini 6, 16149, Genoa, Italy, Instituto Universitario de Materiales de Alicante (IUMA), Univer- sidad de Alicante, Apdo. 99, 03080, Alicante, Spain | 'University of Maribor, Faculty of Mechanical Engi- neering, Maribor, Slovenia, ² Magneti Ljubljana d.d., Ljubljana, Slovenia | 'NH, Athens, Greece |
| | ADDITIVE MANUFACTURING OF NEW LIGHTWEIGHT ARCHITECTURED MATERIALS WITH OPEN POROSITIES | REACTIVITY BETWEEN SIC SINGLE CRYSTALS AND IR AT HIGH TEMPERATURE | ANALYSIS OF MICROSTRUCTURE AND SLIDING WEAR BEHAVIOR OF Co ^{1,5} CrFeNi ^{1,5} Ti0, ⁵ HIGH ENTROPY ALLOY | METAL POWDER COMPOSITE GLUE FOR INDUCTION HEATING IN SHOE MANUFACTURING PROCESS |
| 18.30 | PhD Paul Lohmuller ¹² , PhD Julien Favre ¹ , PhD Samuel Kenzari ² , PhD Boris Piotrowski ¹ , PhD Pascal Laheurle ¹ | Prof. Javier Narciso¹ Doctor Enrica Ricci², Doctor Rada Novakovic², Doctor Donatella Giuranno², Doctor Antonio Camarano¹ | Dr. Konstantinos Lentzaris ¹ , MSc. Anthoula Poulia ¹ , DipL Eng. Emmanuel Georgalis ¹ , Prof. Angela Lekatou ¹ , Ass. Prof. Alexander Karantzalis ¹ | Dr. Sung-Hyuk Song ¹ , Dr. Byungin Kim ¹ , Dr. Heechang Park ¹ , Dr. Sangtaek Oh ² |
| | 'Lem3, Metz, France. ² Institut Jean Lamour, Nancy, France | 'Alicante University, Alicante, Spain, ² CNR-ICMATE, Genova, Italy | 'University of loannina, loannina, Greece | 'Department of Robotics and Mechatronics, Korea Institute of Machinery and Materials, Daejeon, South Korea, 'Organic Material Research Division, Korea Institute of Footwear and Leather Technology, Busan, South Korea |
| | MORPHOLOGY OF BINDER-JET ADDITIVE MANUFACTURED METAL MATRIX COMPOSITES | IN-SITU APPARATUS TO STUDY GAS-METAL REAC- TIONS AND WETTABILITY AT HIGH TEMPERATURES | SOLID SOLUTIONING IN CoCrFeNimx (M=4d TRANSITION METAL) HIGH-ENTROPY ALLOYS | ELECTRICAL ASSISTED UNIAXIAL TENSILE TEST ON UNS S32205, UNS S32304 AND UNS S32750 DUPLEX STAINLESS STEELS |
| 18.50 | Dr. Cindy Waters ¹ , Bernard Amamchukwu Ilogebe ¹ , Cameron Shackleford ¹ , Dr. Amelia Elliott ² , Mohammad Khan ¹ | Dr. Alexey Koltsov ¹ , Dr. Marie-José Cornu ¹ , Julien Scheid ¹ | Dr. Sheng Guo ¹ | Engineer Claudio Gennari ¹ , Prof. Michele Forzan ¹ , Prof. Stefania Bruschi ¹ , Prof. Irene Calliari ¹ , Student Wen Shi ² , Prof. Xianghuai Dong ² |
| | North Carolina A&t State University, Greensboro, United States, ² Oak Ridge National Labs, Oak Ridge, United States | 'ArcelorMittal Research, Maizières-lès-Metz, France | ¹ Chalmers University Of Technology, Gothenburg, Sweden | ¹ University Of Padua, Padua, Italy, ² Jiao Tong University, Shanghai, China |
| | SPRAY APPLICATION FOR MECHANICALLY ALLOYED ODS POWDER | WETTING DYNAMICS OF LIQUID LEAD AND ZINC ON SILICA-PATTERNED IRON | COMPOSITE LAYER TIC-Fe FABRICATED IN SITU IN STEEL CASTING | |
| 19.10 | Suk Hoon Kang', Dong-Yong Park ² , Sanghoon Noh ¹ , Jinsung Jang ¹ , Tae Kyu Kim ¹ | Moustapha Diallo ¹² , Prof.Hervé Duval ¹ , Dr Alexey Koltsov ² , Jean-Michel Mataigne ² , Prof. Marie-Laurence Giorgi ¹ | Msc Łukasz Szymański! ¹² , PhD Ewa Olejnik ¹² , PhD Marta Gajewska ³ , PhD Sylwia Żymankowska - Ku- mon ¹ , PhD Dariusz Drożyński ¹ , PhD Tomasz Tokarski ² | |
| | ¹ Korea Atomic Energy Research Institute, Daejeon, South Korea, ² Nara KIC, Gyeongsangbuk-do, South Korea | ¹ CentraleSupélec, France, ² ArcelorMittal Global R&D, France | 'AGH University Of Science And Technology, Faculty of Foundry Engineering, Cracow, Poland, 'Innerco sp. zo.o., Cracow, Poland, 'AGH University of Science and Technology, Academic Centre of Materials and Nanotechnology, Cracow, Poland | |
| | MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CUAISNI6 PRODUCED BY WIRE ARC ADDITIVE MANUFACTURING FOR MARINE APPLICATIONS | | | |
| 19.30 | Dr. ir. Wei Ya ¹²⁵ , MSc Constantinos Goulas ^{1,35} , MSc Kelvin Hamilton ⁴ , Dr. ir. M.C.M. Hermans ³ , Dr. ir. G. R. B. E. Romer ² , Prof. Dr. I.M. Richardson ³ | | | |
| | "Rotterdam Additive Manufacture Fieldlab (RAMLAB), Rotterdam, Netherlands, ² University of Twente, Enschede, Netherlands, ² Delft University of Technology, Delft, Netherlands, ⁴ Autodesk BV, Hoofddorp, Neth- erlands, ³ Materials innovation institute (MZi), Delft, Netherlands | | | |
| | Rotterdam Additive Manufacture Fieldlab (RAMLAB), Rotterdam, Netherlands, "University Of Twente, Enschede, Netherlands, "Delft University of Technology, Delft, Netherlands, "Autodesk BY, Hoofdorp, Neth- erlands, "Materials innovation institute (MZi), Delft, | | | |



| Symposium | C10 | C11 | D1 | D5 |
|---------------|--|---|--|--|
| Room | F 319/M1 | M0YSA Hall/M2 | Artist Cafe/M1 | I-15/M1 |
| Session Title | Microstructure stability, recrystallization and deformation behaviour | Devices for Memory and Logic | Magnetic and Ferroelectric Materials | Industrial Processes and Valorisation |
| Chairperson | A. Belyakov, R. Massion | Marco Fanciulli | Makis Angelakeris, Maria Katsikini | Claas Hüter |
| | HIGHLIGHT EXPERIMENTAL INVESTIGATION OF THE INFLUENCE OF NANOSCALED PARTICLES AND GB SEGREGATIONS ON THE THERMAL STABILITY OF UFG ALALLOYS | A POLY-SILICON-BASED PROJECTED PHASE-CHANGE MEMORY DEVICE | SOFT-PHONON-DRIVEN ORBITAL ORDER IN CAMA7012: AN X-RAY DIFFUSE AND INELASTIC SCATTERING STUDY | INTEGRATED MODELING OF MATERIALS MICRO- STRUCTURE DURING THERMO-MECHANICAL PROCESSING: A Dyna2MICRO MATERIAL MODEL |
| 17.30 | Xavier Sauvage ¹ , Amandine Duchaussoy ¹ , Elena Bobruk ² , Maxim Murashkin ²³ , Nariman Enikeev ²³ , Ruslan Valiev ²³ | lason Giannopoulos ² , Dr. Abu Sebastian ¹ , Vara Prasad Jonnalagadda ¹ , Dr. Wabe Koelmans ¹ , Manuel Le Gallo ¹ , Dr. Evangelos Eleftheriou ¹ | Dr Sofia Michaela Souliou ¹ , Dr. Yuan Li ²³ , Dr. X Du ² , Prof Mathieu Le Tacon ⁴ , Dr. Alexei Bosak ¹ | <u>Dr.tech. Evgeniya Kabliman</u> ¹, DiplIng. Dr.mont. Carina Schlögl¹, DiplIng. Johannes Kronsteiner¹, Univ. Prof. DiplIng. Dr.tech. Ernst Kozeschnik² |
| | Normandie Université - Groupe De Physique Des Matériaux - CNRS, Saint Étienne Du Rauvray, France, 'Institute of Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa, Russia, 'Research Laboratory for Mechanics of New Nanomaterials, Saint Petersburg State Polytechnical University, Saint Petersburg, Russia | ¹ IBM Research, Rüschlikon, Switzerland, ² Swiss Federal Institute of Technology (ETH Zürich), Zurich, Switzerland | ¹ European Synchrotron Radiation Facility, Greno- ble, France, ² International Center for Quantum Materials, School of Physics, Peking University, Beijing, China, ² Collaborative Innovation Center of Quantum Matter, Beijing, China, ⁴ Karlsruhe Insti- tute of Technology, Institut fur Festkorperphysik, Karlsruhe, Germany | ¹ LKR Leichtmetallkompetenzzentrum Ranshofen GmbH. Center for Low-Emission Transport, AIT Austrian Institute of Technology GmbH. Vienna, Austria, ² Institute of Materials Science and Technology, TU Wien, Vienna, Austria |
| | TEMPERATURE EFFECT ON STRAIN LOCALIZATION DURING DPD COMPRESSION TESTS OF AA 2017-T4 ALLOY | JUNCTIONLESS SI-NANOWIRE FET SONOS MEMORIES | HIGH THROUGHPUT ASSESSMENTS FOR ACCELERATED PERMANENT MAGNET DEVELOPMENT | EFFICIENT SEARCH OF MULTI-PHASE, MULTI-COM- PONENT THERMODYNAMIC SPACES AS SOLUTION TO A CONSTRAINT SATISFACTION PROBLEM |
| 17.50 | Bermane Beucia ¹ , David Tingaud ¹ , Hervé Couque ² , Thierry Chauveau ¹ , Ovidiu Brinza ¹ , Jérôme Mespou- let ^{1,2} , Pierre Hereil ² , Guy Dirras ² | Dr Vassilios Ioannou-Sougleridis*, Dr. Panagiotis Dimitrakis*, Dr. Dimitrios Velessiotis*, Dr. Nikolaos Ni- kolaou', Georgios Papageorgiou', Dr. CA Dimitriadis*, Dr. DH Tassis*, Dr. A Tsormpatzoglou*, Dr. Pascal Normand | Matthew Kramer ¹ , R.T. Ott ¹ , J. Geng ¹ , Tieren Gao ² , Ichiro Takeuchi ² , Feng Ren ³ , Apurva Mehta ³ , Chris Tassone ³ , Doug Van Campen ³ | Associate Professor Raymundo Arroyave ¹² , Graduate Research Assistant Tanner Kirk ² , Undergraduate Researcher Assistant Anas Abu-Odeh ¹² , Postdoctoral Scholar Edgar Galvan ² , Associate Professor Richard J. Malak ² |
| | ¹ Université Paris 13, Sorbonne Paris Cité, LSPM-CNRS, Villetaneuse, France, France, *Nexter Munition, Bourg- es, France, 3Thiot Ingenierie, Puybrun, France | ¹ Institute of Nanoscience and Nanotechnology, NCSR Demokritos [*] , 153-41 Aghia Paraskevi , Greece, ² Department of Physics, AUTh, Thessaloniki, Greece | ¹ Ames Laboratory/ Iowa State University, Ames, United States, ² Department of Materials Science and Engi- neering, University of Maryland, College Park, United States, ³ Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory, Menlo Park, United States | ¹ Department of Materials Science and Engineering, Texas A&m University, College Station, United States, ² Department of Mechanical Engineering, Texas A&M University, College Station, United States |
| | ENHANCEMENT OF STRENGTH OF EZ33A MAGNESIUM ALLOY BY EQUAL CHANNEL ANGULAR PRESSING (ECAP) PROCESSING | A SPIN QUANTUM-BIT AS A FAST SENSOR OF QUANTUM HALL EFFECT EDGE STATES | SPATIALLY RESOLVED INVESTIGATION OF ALL OPTICAL MAGNETIZATION SWITCHING IN FeTb ALLOY | A THERMODYNAMICALLY CONSISTENT MATERIAL MODEL FOR THE THERMOMECHANICAL PROCESSING OF PRECIPITATION-HARDENED ALLOYS |
| 18.10 | PhD Eng. Krzysztof Bryla ¹ , PhD Maciej Krystian ² , PhD Jelena Horky ² , PhD Berhard Mingler ² , Assoc. Prof. Krzysztof Mroczka ¹ , PhD Pawel Kurtyka ¹ , Assoc. Prof. Lidia Litynska-Dobrzynska ³ | Dr. Konstantinos Rogdakis ¹ , Mr. Vivien Thiney ^{1,2} , Dr. Arne Ludwig ³ , Prof. Adreas Wieck ³ , Dr. Christopher Bäuerle ^{1,2} , Dr. Tristan Meunier ^{1,2} | Ashima Arora ¹ , Mohamad-Assaad Mawass ¹ , Florin Radu ¹ , Ahmet Ünal ¹² , Sergio Valencia ¹ , Florian Kronast ¹ | M.Sc., Lukas Kertsch ¹ , Dr. Dirk Helm ¹ |
| | Institute of Technology, Pedagogical University, Krakow, Po- land, "AlT Austrian Institute of Technology, Center for Health & Bioresources, Biomedical Systems, Wiener Neustadt, Austria," Institute of Metallurgy and Material Science of the Polish Academy of Sciences, Krakow, Poland | CNRS, Institut NEEL, F- 38042 Grenoble, France Grenoble, France, Univ. Grenoble Alpes, Institut NEEL, F-38042 Grenoble, France, Lehrstuhl für Angewandte Festkörperphysik, Ruhr - Universität Bochum, Universitätsstraße 150, D - 44780 Bochum, Germany | Helmholtz-zentrum Berlin Für Materialien Und Ener- gie, Berlin, Germany, ³ Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Berlin, Germany | Fraunhofer Institute for Mechanics of Materials IWM, Freiburg. Germany |
| | INVESTIGATION OF STRENGTHENING MECHANISMS OF ULTRAFINE-GRAINED STRUCTURE IN TITANIUM DURING ECAP-CONFORM | CHARACTERIZATION OF 5b-BASED MID-INFRARED MATERIALS AND DEVICES MONOLITHICALLY GROWN ON SILICON SUBSTRATE | THE WONDERS OF Co FILMS INTERCALATED BELOW GRAPHENE | COMPUTATIONAL SIMULATION AND EXPERIMENTAL VERIFICATION OF AIN AND MNS PRECIPITATION BEHAVIOR DURING THE HEAT TREATMENT PROCESS OF FERRITIC STEEL |
| 18.30 | G.S. Dyakonov, S.Y. Mironov ² , I.P. Semenova ¹ , G.I. Raab ¹ , R.Z. Valiev ^{1,3} | E. Delli ¹ , P.D. Hodgson ¹ , E. Repiso ² , A. Craig ² , A. Marshall ² , A. Krier ² and P.J. Carrington ¹ | Ilaria Carlomagno ¹²⁴ , Prof. Carlo Meneghini ¹ , Dr Jakub Drnec ² , Dr Roberto Felici ³ , Andrea Maria Scaparro ¹ , Sara Cicia ¹ | Mr Hojun Gwon ¹ , Dr. Singon Kang ¹ , Dr. Bruno C. De Cooman ¹ |
| | Institute of Physics of Advanced Materials. Ufa State Aviation Technical University, Ufa, Russian Federation, *Department of Materials Processing, Graduate School of Engineering, Tohoku University, Sendai, Japan, *Laboratory for Mechanics of Bulk Nanostructured Materials, Saint Petersburg State University, Peterhof, Saint Petersburg, Russian Federation | ¹ Department of Engineering, Lancaster University, Bailrigg, Lancaster, LA1 4YW, UK ² Physics Department, Lancaster University, Bailrigg, Lancaster, LA1 4YW, UK | 'Università Roma Tre, Roma, Italy, 'ESRF, Grenoble, France, 'SPIN-CNR, Roma, Italy, 'Université Grenoble Alpes, Grenoble, France | 'Graduate Institute Of Ferrous Technology, Postech, Pohang. South Korea |
| | HIGHLIGHT ENHANCED SUPERPLASTICITY OF ULTRAF- INE-GRAINED TI-6AI-4V ALLOY FABRICATED WITHOUT IMPOSING SEVERE PLASTIC DEFORMATION | INN FIELD-EFFECT TRANSISTORS WITH IN-SITU Sinx gate dielectric | | ON THE ROLE OF FERRITE IN SUPPRESSING THE QUENCHING-INDUCED DISTORTION OF CARBURIZED STEEL COMPONENTS |
| 18.50 | <u>Daehwan Kim</u> ¹, Gyeonghyun Jang¹. Yongmoon Lee¹, Chong Soo Lee¹ | Christos Zervos¹², Adam Adikimenakis¹, Petros Beleniotis², Athanasios Kostopoulos¹, Maria Kayam- baki¹, Katerina Tsagaraki¹, George Konstantinidis¹, Alexandros Georgakilas¹² | | Hamidreza Farivar', M. Hans², U. Prahl' |
| | ¹ Gradate Institute of Ferrous Technology, Pohang University Of Science And Technology, Pohang, Republic of Korea | ¹ Microelectronics Research Group (MRG), Institute Of Electronic Structure and Laser (IESL), Foundation For Research and Technology-hellas (FORTH), Heraklion, Greece, ² University of Crete, Physics Department, Heraklion, Greece | | 'Steel Institute (IEHK), RWTH Aachen University, Aachen, Germany, 'Materials Chemistry (MCh), RWTH Aachen University, Aachen, Germany |
| | ELEVATED TEMPERATURE MECHANICAL RESPONSE OF TITANIUM AFTER SEVERE PLASTIC DEFORMATION | EVALUATION AND UNDERSTANDING OF SIZE EFFECTS ON THE CONDUCTIVITY OF SPONTANEOUSLY GROWN GAN NANOWIRES | | INFLUENCE OF SEGREGATION, PRIMARY PRE- CIPITATION AND PROCESS CHAIN ON GRAIN SIZE STABILITY IN CASE HARDENING STEELS |
| 19.10 | <u>Prof. G. Guven Yapici</u> ¹ , Mr. Seyedvahid Sajadifar ¹ | George Doundoulakis ¹² , Antonis Stavrinidis ¹ , Savvas Eftychis ¹² , Maria Androulidaki ¹ , Katerina Tsagaraki ¹ , Maria Kayambaki ¹ , George Konstantinidis ¹ , Alexandros Georgakilas ¹² | | <u>DiplIng. Viktor Kripak</u> ¹ , DrIng. Ulrich Prahl ¹ , UnivProf. DrIng. Wolfgang Bleck ¹ |
| | 'Ozyegin University, Istanbul, Turkey | ¹ Microelectronics Research Group. Institute of Electronic Structure and Laser (IESL), FORTH, P.O. Box 1385, 7110, Heraklion-Cree, Greece, ² Department of Physics, University of Crete, P.O. Box 2208, 70013, Heraklion-Crete, Greece | | 'Rwth Aachen, Aachen, Germany |



| Symposium | D8 | D10 | E6 | F6 |
|---------------|---|--|---|--|
| Room | I -16/M1 | CR II Hall/M2 | Maurice Saltiel Hall II/M2 | Conference Room 2/M1 |
| Session Title | Precipitation and decomposition in alloys | Polymeric systems and nanocomposites | Materials for cryogenic hydrogen fuel tanks | Functional properties of natural materials |
| Chairperson | Ralf Drautz | Peggy Havet, Konstantinos Tserpes | Jörg Hohe | Anna Tampieri |
| | AB-INITIO MODELING OF ANOMALOUS PRECIPITA- TION IN DILUTE NEUTRON-IRRADIATED W ALLOYS | HIGHLIGHT MULTISCALE MODELING OF POLYMER SYSTEMS WITH INTERFACES | SIMULATION STRATEGIES FOR THERMOMECHANICAL DESIGN AND LIFETIME PREDICTION OF CRYOGENIC AUTOMOTIVE HYDROGEN PRESSURE VESSELS | HIGHLIGHT WATER DROPLET BOUNCING, SPLASHING AND SPREADING ON BIOLOGICAL AND BIOMIMETIC SURFACES |
| 17.30 | Dr. D. Nguyen-Manh¹, Dr. J.S. Wrobel², Dr. M. Klimenkov³, Dr. S.L. Dudarev¹ | Aris Sgouros¹, DR Grigoris Megariotis¹, Apostolis Lakkas¹, Professor Doros Theodorou¹ | Werner Lechner ¹ , Timo Christ ¹ , Caroline Wolff ² , Markus Neumeister ³ , Peter Bernst ⁴ , Martin Mahl ⁵ , <u>Jörg Hohe⁴</u> | Prof. Kerstin Koch ¹ |
| | CCFE. United Kingdom Atomic Energy Authority, Abingdon. United Kingdom. Faculty of Materials Science and Engineering. Warsow University of Technology, Warsow, Poland, 'Karlsruhe Institute of Technology, Karlsruhe, Germany | ¹ School of Chemical Engineering, NTUA, Athens, Greece, Koropi, Greece | 'BMW AG, München, Germany, 'DLR, Braunsch- weig, Germany, 'IABG, Taufkirchen, Germany, 'P+Z Engineering GribH, München, Germany, 'Technische Universität München, Garching, Germany, 'Fraunhofer IWM, Freiburg, Germany | 'Rhine-Waal University of Applied Sciences, Kleve, Germany |
| | ORDERING PHENOMENA IN InGaN ALLOYS: AN AB-INITIO THERMODYNAMICS STUDY | FOCUS ON POLYMERS MATERIAL CHARACTERIZA- TION FOR SIMULATION OF AUTOMOTIVE PRODUCTS AT VALEO THERMAL SYSTEMS | ON THE THERMO-MECHANICAL BEHAVIOR OF POLYETHYLENE IN A HYDROGEN PRESSURE VESSEL USING A TEMPERATURE-DEPENDENT NON-ISOSEN- SITIVE MATERIAL MODEL | THE PECULIAR PROTEIN PACKING STRUCTURE OF BYSSUS FIBERS FROM THE FAN MUSSEL, PINNA NOBILIS |
| 17.50 | <u>Dr. Liverios Lymperakis¹</u> , Prof. Jörg Neugebauer¹ | <u>Dr Peggy Havet</u> ¹ , Rodrigo Benevides ¹ | Martin Mahl ¹ , Christopher Jelich ¹ , Horst Baier ¹ | Delphine Pasche ¹ . Dr Matt Harrington ¹ |
| | ¹ Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf. Germany | Valeo Thermal Systems, Le Mesnil Saint Denis, France | ¹ Technische Universität München, Garching bei München, Germany | 'Max Planck Istitute For Colloid And Interfaces, Potsdam-Golm, Germany |
| | EARLY STAGES OF PRECIPITATION IN ALUMINUM ALLOYS: AB-INITIO BASED ATOMISTIC MODELING | FRACTIONAL CALCULUS TO MODEL THE FUNCTION- AL PROPERTIES OF SHAPE-MEMORY-POLYMERS AT LARGE STRAINS | A THERMOMECHANICAL FATIGUE LIFE MODEL FOR METALLIC COMPONENTS OF CRYOGENIC HYDROGEN PRESSURE TANKS | CHARACTERIZATION OF THE MULTI-FUNCTIONALITY OF THE CANALICULAR NETWORK IN HUMAN BONE |
| 18.10 | Dr. Oleg Gorbatov ¹ , Dr. Andrey Stroev ¹² , Dr. Yuri Gornostyrev ¹² , Dr. Pavel Korzhavyi ^{2,3} | Dr. Ehsan Ghobadi ¹² , Axel Marquardt ³ , Elias Mahmoudinezhadt, Pd. Dr. Fathollah Varnik ⁴ , Dr. Klaus Neuking ³ , Prof. Dr. Gunther Eggeler ³ , Prof. Dr. Hoger Steeb ¹² | Philipp von Hartrott ¹ , Stefan Vorndran ¹ , Caroline Wolff ² | Alexander van Tol ¹ , Andreas Roschge ^{r1,2} , Junning Chen ¹ , Felix Repp ¹ , Wolfgang Wagermaier ¹ , Philip Kollmannsberger ² , Paul Roschger ² , Peter Fratzl ¹ , Richard Weinkamer ¹ |
| | Institute of Quantum Materials Science, Ekaterinburg, Russia, Institute of Metal Physics, Ekaterinburg, Russia, IKTH Rayal Institute of Technology, Stockholm, Sweden | ¹ University of Stuttgart, 70569 Stuttgart, Germany, ² SimTech, 70569 Stuttgart, Germany, ² Institute for Materials, Ruhr-Universität Bochum, 44780 Bochum, Germany, ⁴ (LAMS, Ruhr-Universität Bochum, 44780 Bochum, Germany | ¹ Fraunhofer IWM, Freiburg, Germany, ² German Aero- space Center (DLR), Braunschweig, Germany | "Max Planck Institute of Colloids and Interfaces, De- partment of Biomaterials, Potsdam, Germany, ² Ludwig Boltzmann Institute of Osteology at the Hanusch Hospital of WGKK and AUVA Trauma Centre Meidling, 1 th Medical Department, Hanusch Hospital, Vienna, Austria, ² Center for Computational and Theoretical Biology, Universität Wirzburg, Campus Hubland Nord 32, Würzburg, Germany |
| | AB INITIO STUDY OF THERMODYNAMIC AND MECHANICAL PROPERTIES OF N55Si3 ALLOYED WITH Ti | TWO-SCALE NUMERICAL MODELING OF CRACK SENSING IN POLYMERS USING CONDUCTIVE CNT NETWORKS | FATIGUE ANALYSIS OF A COOLING WATER HEAT EXCHANGER – FROM THE LOAD DATA GENERATION TO THE LIFE EXPECTANCY EVALUATION | SELF-ASSEMBLY OF COMPLEX HIERARCHICAL STRUCTURES IN TOUGH AND ADHESIVE MUSSEL BYSSAL THREADS |
| 18.30 | Dr loannis Papadimitriou', Dr Claire Utton', Prof. of Metallurgy and Posco Chair Prof. Panagiotis Tsakiropoulos¹ | Prof. Konstantinos Tserpes ¹ , Mr. Christos Kora ¹ | Mr Peter Bernst ¹ , Ms Monika Steinhauser ¹ , Dr Jan Reger ¹ | Tobias Priemel ¹ |
| | 'The University Of Sheffield, Department of Materials Science and Engineering, Mappin Street. Sheffield S1 3JD, United Kingdom | ¹ University of Patras, Patras, Greece | ¹ARRK, Munich, Germany | 'Max Planck Institute of Colloids and Interfaces, Potsdam, Germany |
| | COHERENT HCP/BCC INTERFACES IN Z+Nb ALLOYS | SELF-CONSISTENT FIELD MODEL OF INHOMOGE- NEOUS POLYMER SYSTEMS: SOLUTION BY THE FINITE ELEMENT METHOD | A CFRP MATERIAL MODEL ACCOUNTING FOR FATIGUE DAMAGE AND DEGRADATION | TREATMENT AND RECOVERY OF COCCOLITH PARTICLES FROM BIOGENIC SYSTEMS |
| 18.50 | Dr Maeva Cottura ¹² , Dr Emmanuel Clouet ¹ | <u>Mr Apostolos Lakkas</u> ¹, Mr Aris Sgouros¹, Dr Grigorios Megariotis¹, Prof Doros Theodorou¹ | PD DrIng. Jörg Hohe ¹ , DrIng. Monika Gall ¹ , DrIng. Sascha Fliegener ¹ , MSc Zalikha Murni binti Abdul Hamid ¹² | Makrina Artemis Chairopoulou¹. DrIng. Ulrich Teipel¹ |
| | ¹ SRMP, CEA Saclay, Gif-sur-Yvelte, France, ² Materials Science and Engineering, UC Berkeley, Berkeley, USA | ¹ School of Chemical Engineering NTUA, Athens, Greece | Fraunhofer IWM, Freiburg, Germany, ² Karlsruhe Institute of Technology, Karlsruhe, Germany | ¹ TH Nürnberg Georg Simon Ohm, Nuremberg, Germany |
| | | | LIFETIME PREDICTION OF CRYO-COMPRESSED HYDROGEN (CCH2) STORAGE TANKS | SITE-SPECIFIC DIFFERENCES IN THE MINERALIZATION PROCESS IN HUMAN BONE |
| 19.10 | | | Caroline Wolff ¹ , DrIng. Janko Kreikemeier ¹ | Dr. Andreas Roschger ¹² , Dr. Wolfgang Wagermaier ¹ , Dr. Sonja Gamsjaeger ² , Dr. Norbert Hassler ² , Dr. Ingo Schmidt ¹ , Dr. Stéphane Blouin ² , Dr. Richard Weinkamer ¹ , Dr. Paul Roschger ² , Dr. Eleftherios Paschalis ² , Prof. Klaus Klaushofer ² , Prof. Peter Fratzl ¹ |
| | | | 'German Aerospace Center (DLR), Braunschweig, Germany | 'Max Planck Institute of Colloids and Interfaces, Department of Biomaterials, Potsdam, Germany 'Ludwig Boltzmann Institute of Osteology at Hanusch Hospital of WGKK and AUVA Trauma Centre Meidling, 1st Med. Dept. Hanusch Hospital, Vienna, Austria |



| Symposium | A1 | A6 | A7 | А9 |
|---------------|---|---|--|---|
| Room | 3-21/M1 | CR I Hall/M2 | Rehearsal Room 5.17 /M1 | I-11/M1 |
| Session Title | Physical properties of nanocomposites | Space requirements, joining, additive | Deposition and nanostructuring assisted by ion and laser irradiation | Membranes for Ultra - and Nanofiltration |
| Chairperson | Michal Otyepka | George Vekinis | Vassilis Binas | Katja Loos |
| | HIGHLIGHT A COMPARATIVE STUDY ON THE ELECTRICAL PROPERTIES OF DIFFERENT FORMS OF CARBON ALLOTROPES/EPOXY NANOCOMPOSITES | AN OVERVIEW OF ENVIRONMENTAL EFFECTS ON SPACE MATERIALS — CHALLENGES AND OPPORTUNITIES | KEYNOTE/INVITED BI-BASED NANOSTRUCTURES PRODUCED BY LASER ABLATION AND THEIR FUNCTIONAL PROPERTIES TAILORED BY COMPLEX ENSEMBLES OF NANOSCALE PHASE/NANODOMAIN FLUCTUATIONS | FORMATION OF ISOPOROUS MEMBRANES FROM BLOCK COPOLYMERS IN FLAT SHEET AND HOLLOW FIBRE GEOMETRIES |
| 11.00 | Mr. Sotirios Stavropoulos ¹ , Mrs Aikaterini Sanida ¹ , Prof. Georgios Psarras ¹ | Dr Christopher Semprimoschnig | | Prof. Dr. Volker Abetz ¹ , Dr. Maryam Radjabian ¹ , Nazia Noor ¹ , Kirti Sankhala ¹ , Clarissa Abetz ¹ , Sofia Dami ¹ , Dr. Birgit Fischer ² , Dr. Andreas Meyer ² |
| | ¹ Smart Materials and Nanodielectrics Laboratory, Department of Materials Science, School of Natural Sciences, University Of Patras, Patras, Greece | ESA (European Space Agency), Noordwijk, Netherlands | Prof. Maria Dinescu ¹ , Dr. Nicu Doinel Scarisoreanu ¹ | ¹ Helmholtz-Zentrum Geesthacht, Geesthacht, Germany, ² Universität Hamburg, Hamburg, Germany |
| | MECHANICAL PROPERTIES OF ELASTOMERIC POLYMER/CARBON BLACK NANOCOMPOSITES: EXPERIMENTAL STUDY AND MODELING | JOINING OF CFRP AND LOW-CTE GLASS-CERAMICS FOR AEROSPACE APPLICATIONS | | HIGHLIGHT STIMULI-RESPONSIVE POLYMER-BASED ULTRAFILTRATION MEMBRANES |
| | <u>Dr Ahmed Mdarhri</u> ¹ , Fatiha ELHAOUZI ¹² , Ilham EL ABOUDI ¹ , Mustapha Zaghrioui ³ . A Nourdine ⁶⁵ | Stefano De La Pierre ¹ , Muhammad Kashif Bangash ¹ , Monica Ferraris ¹ | | Prof. Dr. Mathias Ulbricht |
| 11.20 | Laboratoire de la Matière Condensée et des Nano- structures (LMCN), FSTG Université Codi Ayyad Av. A. Khatlabi, B.P. 549, Marrakech, Morocco, ² Laboratoire de Chimie Bio-organique et Macromoléculaire, FSTG Université Codi Ayyad Marrakech, Maroc, Marrokech, Marocco, ² Laboratoire GREMAN CNRS-UMR 7347, Université Françis Robelais, Tours, France, 4LEPMI, Université Françis Robelais, Tours, France, 4LEPMI, Université rançis Robelais, Tours, France, 4LEPMI, Chambery, France, 5LEPMI, CNRS, Grenoble F-38000, France | 'Politecnico Di Torino, DISAT, Torino, Italy | 'National Institute for Lasers, Plasma and Radiation Physics , Bucharest , Romania | 'Lehrstuht Für Technische Chemie II. Universität Duisburg-Essen, Essen, Germany |
| | MECHANICAL AND TRIBOLOGICAL PROPERTIES OF CARBON NANOTUBE-YTTRIA-STABILIZED Z-02 NANO-COMPOSITES PREPARED BY SPARK PLASMA SINTERING | ADHESIVE BONDING FOR SPACE APPLICATIONS | ION-INDUCED BENDING OF GERMANIUM AND SILICON NANOWIRES AT HIGH TEMPERATURE | POLYARYLSULFONE-BASED ULTRAFILTRATION MEMBRANES WITH IMPROVED ANTI-FOULING AND SEPARATION PERFORMANCE BY TAILORED COPOLYMER ADDITIVES |
| 11.40 | Dr Alicia Weibel ¹ , Dr Anne Kasperski ¹ , Dr Dalya Alkattan ¹ , Dr Claude Estournès ¹ , Pr Christophe Laurent ¹ , Pr Alain Peigney ¹ | MSc. Phd. Premysl Janik', MSc. Phd. Malgorzata Holynska ¹ , MSc. Phd. Christopher Semprimoschnig ¹ | O Camara¹, Dr G Greaves¹, Dr R.W Harrison¹, M.A Tunes¹, Dr J.A. Hinks¹, I Hanif¹, Pr S.E Donnelly¹ | Inga Stratmann¹, Linda Lempke¹, Mathias Ulbricht |
| | 'Université de Toulouse, CIRIMAT, CNRS INPT UPS, Université Paul-Sabatier, 118 route de Narbonne, 31062 Toulouse cedex 9, France | 'European Space Agency, Noordwijk, Netherlands | 'School of Computing and Engineering, University of Huddersfield, Huddersfield, United Kingdom | 'Lehrstuhl für Technische Chemie II, Universität Duisburg-Essen, Essen, Germany |
| | RESEARCH ON MECHANICAL AND ELECTRICAL PROPERTIES OF WIRES MADE FROM ALUMIN- IUM-GRAPHENE AND COPPER-GRAPHENE COMPOSITES | SANDWICH MATERIALS AND STRUCTURE: BREAKTHROUGH INNOVATION IN LIGHT AN STABLE SPACE STRUCTURES | OPTICAL SPECTROSCOPY STUDY OF NANO - AND MICROSTRUCTURES STRUCTURES INDUCED BY FEM- TOSECOND LASER PULSES ON ZNO BASED SYSTEMS | HIGHLIGHT OLIVE WASTE USED AS PORE GENERATOR IN ECOLOGICAL CERAMIC MEMBRANES |
| 12.00 | MSc Marek Gnietczyk¹, Prof. Tadeusz Knych¹, Prof. Beata Smyrak¹, MSc Bartosz Jurkiewicz¹, MSc Małgorzata Zasadzińska¹ | Materials & Processes Manager OLIVIER DAMIANO ¹ . Materials and Processes specialist LAURENCE CORNILLON | Esther de Prado ^{1,3} , Dr Belén Sotillo ^{1,4} , Dr Camilo Florian ² , Professor Javier Solis ² , <u>Professor Paloma Fernández</u> ¹ , Dr Jan Siegel ² | Prof. Enrique Sánchez ¹ , Ms. M-Magdalena Lorente-Ayza ¹ , Dr. M-Carmen Bordes ¹ , Dr. Sergio Mestre ¹ , Ms. Elena Zuriaga ² , Mr. Ignacio Pastor ² , Ms. Beatriz Hernández ² |
| | 'AGH-University Of Science and Technology, Kraków, Poland | ¹ Thales Alenia Space, Cannes, France | "Dept. Física de Materiales, University Com- plutense, Madrid, Spain, "Instituto de óptica "Daza de Valdés", C.S.I.C., Madrid, Spain, "Dept. Física Aplicada y Electromagnetismo, University of Valencia, 46100 Burjasot, Spain, "IFN - CNR and Dipartimento di Física, Politecnico di Milano, Milano, Italy | 'Chemical Engineering Dep., Instituto Universi- tario Tecnologia Cerámica, University Jaume I, Castellón, Spain, ² FACSA (Sociedad de Fomento Agricola Castellonense), Castellón, Spain |
| | PROPERTIES OF THE AL AND CU-GRAPHENE COMPOSITES PRODUCED BY HIGH PRESSURE TORSION | DEVELOPMENT OF LOW COST TITANIUM SPACECRAFT PROPELLANT TANKS | MULTI STEP GROWTH PROCESS OF MULTILAYERS BY GLANCING ANGLE DEPOSITION FOR ULTRA-HIGH PERFORMANCES ANTI-REFLECTIVE COATINGS | MESOPOROUS SILICA NANOPARTICLES AS TAILORED FILLERS FOR POLYAMIDE THIN-FILM COMPOSITE MEMBRANES |
| 12.20 | Prof. Pas Tomasz Czeppe¹, Prof Galia Korznikova², Prof Piotr Ozga¹, Dr Robert Socha³ | <u>Dr Steve Dodds</u> ¹ , Dr Andrew Norman ² , Renato Bellarosa ³ | Master Degree Florian Maudet ¹ , PhD Fabien Paumier ¹ , Professor Thierry Girardeau ¹ | Ahmed Abdelsamad¹, Mathias Ulbricht¹ |
| 12.20 | 'Institute of Metallurgy And Materials Sciences Pas, Krakow, Poland, 'Institute for the Metals Superplas- ticity Problems, Russian Academy of Sciences, Ufa, Russia, 'Intitute of the Catalysis and Physical Prop- erties of the Surfaces, Polish Academy of Sciences, Krakow, Poland | "TWI Ltd. Cambridge, United Kingdom, ² Esa - ESTEC, Amsterdom, Netherlands, ³ Airbus Group, Stevenage, United Kingdom | Institut Pprime, Chassneuil-du-Poitou, France | ¹ Lehrstuhl für Technische Chemie II, Universität Duisburg-Essen, Essen, Germany |
| | EFFECT OF CARBON NANOTUBES ON THE THERMAL STABILITY OF NANOCOMPOSITES | | LARGE AREA ITO NANO-STRUCTURING VIA SELF-ORGANIZATION BY FEMTOSECOND-LASER IRRADIATION | HIGHLIGHT POLYELECTROLYTE MULTILAYERS FOR MULTIFUNCTIONAL NANOFILTRATION MEMBRANES |
| | Sónia Simões¹, Paulo J. Ferreira²², Filomena Viana¹, Marcos A. L. Reis⁴, Manuel F. Vieira¹ | | Dr. Daniel Puerto ¹ , Dr Maria del Carmen Lopez-San- tos ² , Dr. Camilo Florian ¹ , Dr. Jan Siegel ¹ , Dr. Jorge Gil-Rostra ² , Prof. Agustin R. Gonzalez-Elipe ² , Dr. Javier Solis ¹ | Dr. Wiebe Matthijs De Vos¹ |
| 12.40 | 'CEMMPRE, Department Of Materials And Metal- lurgical Engineering, University Of Porto, Portugal, Porto, Portugal, *Materials Science and Engineer- ing Program, University of Texas at Austin, Austin, 1%, 78/12, USA, Austin, EUA, *International berian Nanotechnology Laboratory, Avenida Mestre José Veiga, 4715-330 Braga, Portugal, Braga, Portugal, *Faculdade de Ciências Exatas e Tecnologia, Universidade Federal do Pará, Abaetetuba, PA 68440-000 Brazil, Brazil | | 'Laser Processing Group, Instituto de Optica-CSIC, Madrid, Spain, [*] Nanotechnology of Surfaces Group, Instituto de Ciencia de Materiales-CSIC, Seville, Spain | 'University Of Twente, Enschede, Netherlands |



| Symposium | B1 | B2 | В4 | B7 |
|---------------|---|--|---|---|
| Room | Maurice Saltiel Hall I/M2 | Aimilios Riadis Hall/M2 | 3.20/M1 | CR III Hall/M2 |
| Session Title | Modelling Tools for Steel Design I | Magnesium: Corrosion and Oxidization | Multilayer and sheet materials | Defects Engineering, Catalytic and Separation Studies |
| Chairperson | llana Timokhina, Mark Rainforth | Xiaoqin Zheng | Enrico Bruder | Veronique Van Speybroeck |
| | APPLICATION OF THE THERMODYNAMIC EXTREMAL PRINCIPLE IN DIFFUSION-CONTROLLED PHASE TRANSFORMATIONS | HIGHLIGHT ACTIVE PROTECTION OF MG BY COATINGS WITH NOVEL CORROSION INHIBITORS | KEYNOTE/INVITED ANISOTROPY OF MECHANICAL AND FUNCTIONAL PROPERTIES IN SPD PROCESSED METALLIC MATERIALS | HIGHLIGHT MISSING LINKERS: AN ALTERNATIVE PATHWAY TO UIO-66 ELECTRONIC STRUCTURE ENGINEERING |
| 11.00 | Wangwang Kuang ¹ , Haifeng Wang ¹ | Prof. Mikhail Zheludkevich ¹ , Dr. Sviatlana Lamaka ¹ , Dr. Daniel Hoeche ¹ , Dr. Carsten Blawert ¹ , Ms Yan Chen ¹ | | Arthur De Vos¹, Kevin Hendrickx¹², Prof. Dr. Pascal Van Der Voort², Prof. Dr. Veronique Van Speybroeck¹, Dr. Kurt Lejaeghere¹ |
| | ¹ State Key Laboratory of Solidification Processing, Northwestern Polytechnical University, Xi'an, Shaanxi, China | ¹ Helmholtz-zentrum Geesthacht, Geesthacht, Germany | Ilchat Sabirov | Center for Molecular Modeling, Ghent University, Technologiepark 903, BE-9052 Zwijnaarde, Belgium, 2Department of Inorganic and Physical Chemistry, Center for Ordered Materials, Organometallics and Catalysis, Ghent University, Krijgslaan 281-53, BE-9000 Ghent, Belgium |
| | AB-INITIO INVESTIGATION OF THE ROLE OF K CARBIDE IN UPGRADING Fe-Mn-AI-C ALLOY TO THE CLASS OF ADVANCED HIGH-STRENGTH STEELS | HIGHLIGHT INITIATION OF MAGNESIUM OXIDATION: A STUDY BY HIGH-RESOLUTION PHOTOEMISSION | | EFFECT OF BENZOIC ACID AS MODULATOR IN UiO-66 STRUCTURE: AN EXPERIMENTAL AND COMPUTA- TIONAL STUDY |
| 11.20 | Dr. Poulumi Dey' , Ms. Mengji Yao' , Dr. Martin Friák ^{2,3} , Dr. Tilmann Hickel' , Prof. Dierk Raabe' , Prof. Jörg Neugebauer ¹ | Dr Sandra Gardonio ¹ , Dr Mattia Fanetti ¹ , Prof. Matjaz Valant ¹ , <u>Prof. Dmytro Orlov</u> ^{2,1} | | Mr. Cesare Atzori ¹ , Dr. Greig C. Shearer ² , Dr. Lorenzo Maschio ¹ , Prof. Bartolomeo Civalleri ¹ , Dr. Francesca Bonino ¹ , Prof. Carlo Lamberti ^{1,2} , Prof. Sitian Svelle ² , Prof. Karl Petter Lillerud ² , Prof. Silvia Bordiga ^{1,2} |
| | ¹ Max-Planck-Institut für Eisenforschung GmbH. Düsseldorf, Germany, ² Institute of Physics of Materials, v.v.i., Academy of Sciences of the Czech Republic, Brno, Czech Republic, ² Central European Institute of Technology, CEITEC MU, Masaryk University, Brno, Czech Republic | ¹ University of Nova Gorica, Nova Gorica, Slovenia, ² Lund University, Lund, Sweden | ¹ IMDEA Materials Institute, Madrid, Spain | **Department of Chemistry, NIS and INSTM Reference Centre, University of Turin, Turin, Italy, *Department of Chemistry, University of Oslo, Oslo, Norway, *IRC *Smart Materials*, Southern Federal University, Rostov-on-Don, Russia |
| | RELATIONS BETWEEN MICROSTRUCTURE AND STRENGTH FOR QUENCHED AND TEMPERED STEEL | THE EFFECT OF ALLOYING ELEMENTS ON MICROSTRUCTURE AND CORROSION BEHAVIOR OF WROUGHT Mg-AI ALLOYS | HIGHLIGHT HIGH STRENGTH MULTILAYERED METALLIC COMPOSITES | UNRAVELING THE BEHAVIOR OF UIO-66 DURING THE DEHYDRATION PROCESS AT ELEVATED TEMPERATURE |
| 11.40 | Dr Marius Gintalas ¹, Dr Pedro Eduardo Jose Rivera-Díaz-del-Castillo¹, Dr Carlos Garcia-Mateo², Mr Miguel Angel Santajuana Aldea² | Polina Metalnikov ¹² . Guy Ben-Hamu ² | Prof. Dr. Werner Skrotzki ¹ , Juliane Scharnweber ¹ , Dr. Paul Chekhonin ¹ , Dr. Carl-Georg Oertel ¹ , Dr. Jan Romberg ² , Prof. Dr. Jens Freudenberger ² | Julianna Hajek ¹ , Kristof De Wispelaere ¹ , Ruben Demuynck ¹ , Michel Waroquier ¹ , Veronique Van Speybroeck ¹ |
| | ¹ The University Of Cambridge, Cambridge, United Kingdom, ² Spanish National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain | ¹ Department of Material Engineering, Ben-Gurion University of the Negev, Be er-sheva 84105, Israel, ² Department of Mechanical Engineering, Sami Sha- moon College of Engineering, Ashdod 77245, Israel | ¹ TU Dresden, Dresden, Germany, ² Leibniz-Institute for Solid State and Materials Research , Dresden, Germany | ¹ Center for Molecular Modeling, Ghent University, Zwijnaarde, Belgium |
| | EFFECTS OF ALUMINUM ON HYDROGEN SOLUBILITY AND DIFFUSION IN DEFORMED Fe-Mn ALLOYS | EFFECT OF COMBINED ADDITION OF Ca AND Y ON THE CORROSION BEHAVIORS OF DIE-CAST AZ91 MAGNESIUM ALLOY | SHEAR INDUCED INTERFACE FORMATION OF AL-STEEL AND CU-STEEL MULTILAYERED COMPOSITE SHEETS | A NEW TI(IV)-BASED METAL-ORGANIC FRAMEWORK WITH TI-O CHAINS AS CATALYST FOR DIBENZOTHIO PHENE OXIDATION |
| 12.00 | <u>Claas Hüter</u> ¹² , Siaufung Dang ¹ , Xie Zhang ² , Albert Glensk ² , Robert Spatschek ¹² | Sang Kyu Woo ¹ , Carsten Blawert ³ , Sang Bong Yi ³ , Chang Dong Yim ¹² , Young Min Kim ¹² , Bong Sun You ¹² , Nico Scharnagl ³ , Kiryl Yasakau ⁴ | Dr. Anibal Mendes ¹ , Dr. Rimma Lapovok ¹ , Dr. Ilana Timokhina ¹ , Dr. Andrey Molotnikov ² , Dr. Peter Hodgson ¹ | <u>Simon Smolders</u> ¹ , Dr. Bart Bueken ¹ , Prof. Dr. Maarten Roeffaers ¹ , Prof. Dr. Dirk De Vos ¹ |
| | ¹ Forschungszentrum Jülich, Jülich, Germany, ² Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany | ¹ Korea University of Science and Technology, Daejeon, South Korea, ² Korea Institute of Materials Science, Changwon, South Korea, ³ Helmholtz-Zentrum Gees- thacht, Geesthacht, Germany, ² University of Aveiro, Aveiro, Portugal | ¹/FM-Deakin University, Melbourne, Australia, ²Monash University, Melbourne, Australia | ¹ Centre for Surface Chemistry and Catalysis, KU Leuven, Belgium |
| | MODELING THE MECHANICAL BEHAVIOR OF TEMPERED MARTENSITE | IMPROVEMENT OF CORROSION RESISTANCE IN Mg-AL ALLOYS BY Ca AND Y ADDITION | DUCTILISATION OF TUNGSTEN (W) THROUGH COLD-ROLLING:CORRELATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES IN UFG-W SHEETS | COMPUTATIONAL MODELING OF MOF ADSORBENTS AND MEMBRANES FOR NOBLE GAS SEPARATIONS |
| 12.20 | Dr. Artem Arlazaro v', Lívia Raquel C. Malheiros', Dr. Edgar Alejandro Pachon Rodriguez' | Bong Sun You ¹ . Young Min Kim ¹ | Simon Bonk ¹ , Dr. Andreas Hoffmann ² , Dr. Jan Hoff- mann ¹ , Ute Jäntsch ¹ , Dr. Michael Klimenkov ¹ , Dr. Michael Rieth ¹ , Dr. Jens Reiser ¹ | Assoc. Prof. Seda Keskin ¹ , Ms. Zeynep Sumer ¹ |
| | ¹ ArcelorMittal Maizières Research SA, Maizières-lès-Metz Cedex, France | ¹ Korea Institute Of Materials Science, Changwon, South Korea | 'Karlsruhe Institute of Technology (KIT), Institute for Applied Materials — Applied Materials Physics, 76344 Eggenstein-Leopoldshafen, Germany, ² PLANSEE SE, 6600 Reutte, Austria | ¹ Koc University, Istanbul, Turkey |
| | ORDERING OF CARBON IN HIGHLY SATURATED ALPHA-Fe | | MECHANICAL PROPERTIES OF PARTICLE REIN- FORCED ULTRAFINE GRAINED TITANIUM SHEETS PRODUCED BY ACCUMULATIVE ROLL BONDING | THE EFFECT OF THE ACTIVATION CONDITIONS FOR TUNING THE PT ACTIVE SITES IN FUNCTIONALIZED UIO-67 MOF |
| | Osamu Waseda', Julien Morthomas', Patrice Chantrenne', Chadwick Sinclair ³ , Fabienne Ribeiro ² , Michel Perez ¹ | | Christopher Schunk ¹ , PD DrIng. habil. Heinz Werner Höppel, Prof. DrIng. Wolfgang Peukert, Prof. Dr. rer. nat. Mathias Göken | Luca Braglia ¹² , Elisa Borfecchia ¹ , Kirill.A. Lomachen- ko ²² , Alexander V. Soldatov ² , Bjørn-Tore Lønstad-Blek en ⁵ , Sigurd Øien-Ødegaard ⁴ , Unni Olsbye ⁶ , Karl Petter Lillerud ⁴ , Silvia Bordiga ¹⁴ , Giovanni Agostin ^{3,5} , Maela Manzoli ⁵ , Carlo Lamberti ^{2,7} |
| 12.40 | ¹ Université de Lyan, INSA de Lyan, France. ² Institut de radioprotection et de sûreté nucléaire, France, ² University of British Columbia, Canada | | 'Friedrich-Alexander-University, Erlangen, Germany | "Department of Chemistry, NIS and INSTM Reference Centers, University of Turin, Turin, Italy, "IRC "Smart Materials", Southern Federal University, Rostov on Don, Russia, "European Synchrotron Radiation Facility, Grenoble, France, "inGAP Centre for Research Based Innovation, Joslo, Norway, "Leibniz Institute for Catalysis, University of Rostock (LIKAT), Rostock, Germany, "Department of Drug Science and Technology, NIS Interdepartmental Centre, University of Turin, Turin, Italy, "Department of Chemistry, Crisibi Interdepartmental Centre and INSRM reference University of Turin Turin, Italy," |
| 13.00 | | | | POSTER TALKS (4X posters at 5 min each) |

EUROMAT2017 13<u>1</u>



| Symposium | C1 | C3 | C4 | C5 |
|---------------|---|--|---|---|
| Room | Friends of Music Hall/M1 | Maurice Saltiel Hall III/M2 | Conference Room 4/M1 | Museum Hall /M2 |
| Session Title | C1.3: Surface engineering and modifications 2/3 - Functionality I | SPS | Additive Manufacturing of metals 3 | Infiltration |
| Chairperson | E. Aperathitis, R. Peng | Christophe Martin | Alberto Molinari | Natalia Sobczak, Vladimir Traskine |
| | EFFECT OF MICROSTRUCTURE FEATURES ON DLC DELAMINATION AND BLISTERING | KEYNOTE/INVITED COOL-SPS: SINTERING OF FRAGILE FERROIC MATERIALS AND BEYOND | ALLOY DESIGN FOR ADDITIVE MANUFACTURING: RAPID SOLIDIFICATION STUDIES ON CuSn and CuSnTi Alloys | KEYNOTE/INVITED REACTIVE INFILTRATION: IDENTIFYING THE ROLE OF CHEMICAL REACTIONS, CAPILLARITY, VISCOSITY AND GRAVITY |
| 11.00 | Mr Antonios Choleridis¹. Dr. Christophe Héau³. Dr. Marie-Alix Leroy³. Dr. Vincent Barnier¹, Dr. Sergio Sao-Joao¹, Prof. Christophe Donnet², Prof. Helmut Klocker¹ | | <u>Xiaoshuang Li</u> ¹² , Adriaan B. Spierings ³ , Prof. Dr Konrad Wegener ² , Dr. Christian Leinenbach ¹ | |
| | ¹ Univ Lyon, Mines Saint Etienne, Centre SMS/LGF UMR 5307, Saint Etienne, France, ² Univ Lyon, Université Jean Monnet, Laboratoire Hubert Curien UMR 5516, Saint Etienne, France, ³ Institut de Recherche en Ingénierie des Surfaces, Groupe HEF, France, Saint Etienne, France | Dr Michael Josse ¹ , Mr Thomas Hérisson de Beauvoir ¹ , Miss Anna Sangregorio ¹ , Mr Inaki Cornu ¹ , Mr Vincent Villemot ¹ , Dr Cathy Elissalde ¹ , Dr Dominique Michau ¹ , Dr U-Chan Chung-Seu ¹ | ¹ Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland, ² ETH Zurich, Institute of Machine Tools and Manufacturing, Zurich, Switzerland, ³ Inspire AG, Innovation Center for Additive Manufacturing Switzerland, St. Gallen, Switzerland | Phd Enrique Louis ¹ , PhD Juan Antonio Miralles ¹ , PhD José Miguel Molina ¹ |
| | THERMOCHEMICAL HEAT STORAGE SYSTEMS WITH HONEYCOMB FILTER TYPE HEAT EXCHANGER SYSTEMS | | MACRO MICRO AND NANO HARDNESS AND MACRO AND NANO WEAR BEHAVIOR OF ALUMINUM ALLOYS BY LASER POWDER BED FUSION | |
| 11.20 | Bengisu Yılmaz ¹ , Behiye Yüksel ² , Zafer Utlu ² , Prof. Dr. Gökhan Orhan ¹ , Saffa Riffat3, Hasila Jarimi ³ | ¹ University of Bordeaux, CNRS, ICMCB, Pessac, France | PhD Massimo Lorusso', M.Sc. Francesco Trevisan', M.Sc. Alberta Aversa ² , PhD Flaviana Calignano', PhD Elisa Ambrosio', Professor Matteo Pavese ² , Professor Mariangela Lombardo ² , Professor Paolo Fino ¹² , PhD Diego Manfredi ¹ | |
| | ¹Istanbul University, ²Istanbul Aydın University, ³Nottingham University | | | [†] Universidad De Alicante, Alicante, Spain |
| | ANTIFOULING PROPERTIES OF PLASMA ELECTROLYTIC OXIDATION (PEO) COATED ALUMINUM ALLOYS TESTED IN SEAWATER | DENSE MOLYBDENUM PARTS WITH A CONTROLLED MICROSTRUCTURE PREPARED BY SPS | IN-PROCESS PRECIPITATION STRENGTHENING DURING LASER METAL DEPOSITION OF ALUMINUM ALLOYS BY A13(Sc.Zr) NANO-PRECIPITATES | CAPILLARITY IN PRESSURE INFILTRATION: INFLU- ENCE OF PERCOLATION AND WETTING ANGLE AT HIGH TEMPERATURE |
| 11.40 | Ing. Pietrogiovanni Cerchier ¹ , PhD Luca Pezzato ¹ , Ing. Claudio Gennari ¹ , Emanuela Moschin ¹ , prof. Isabella Moro ¹ , prof. Manuele Dabalà ¹ , prof. Maurizio Magrini ¹ | <u>Sylvain Lorand</u> ¹ , Foad NAIMI ¹ , Frédéric DEMOISSON ¹ , Hervé COUQUE ² , Frédéric BERNARD ¹ | Philipp Kürnsteiner¹. Markus Benjamin Wilms². Andreas Weisheit². Eric Aimé Jägle¹. Dierk Raabe¹ | Mr Gionata Schneider ¹ , Dr. Ludger Weber ¹ , Prof. Andreas Mortensen ¹ |
| | ¹ University Of Padova, Padova, Italy | ¹ Laboratoire Interdiciplinaire Carnot de Bourgogne, UMR6303 CNRS-Université de Bourgogne-Franche- Comté, Dijon, France, ² Nexter Munition | ¹ Max-Planck-Institut für Eisenforschung, 40237 Düsseldorf, Germany, ² Fraunhofer-Institut für Lasert- echnik, 52074 Aachen, Germany | [†] EPFL-STI-IMX-LMM, Lausanne, Switzerland |
| | STUDY OF THE TRIBOCORROSION PROPERTIES OF PEO COATINGS PRODUCED ON AZ91 MAGNESIUM ALLOY | MICROSTRUCTURAL CHARACTERIZATION AND MODELLING OF THE DENSIFICATION MECHANISMS OF METALLIC SYSTEMS BY SPARK PLASMA SINTERING | ADDITIVE MANUFACTURING (AM) AS A RAPID SO- LIDIFICATION PROCESS: A STUDY ON AL-SI ALLOYS | EFFECT OF SOLUBILITY AND CAPILLARITY DRIVEN KINETICS ON SINTERED MICROSTRUCTURE OF WC-Co ALLOYS |
| 12.00 | Ing. Luca Pezzato¹, Dragos Vranescu¹, Ing. Marco Sinico², Ing. Pietro Pranovi², Ing. Katya Brunelli¹, Prof. Manuele Dabalà¹ | <u>Jean-Philippe Monchoux</u> ¹, Zofia Trzaska¹, Christophe Collard¹, Lise Durand¹, Alain Couret¹, Guillaume Bonnefont², Gilbert Fantozzi², Jean-Marc Chaix³ | Ms. Silvia Marola ¹ , Dr. Diego Manfredi ² , Dr. Gianluca Fiore ¹ , Dr. Marco Gabriele Poletti ¹ , Prof. Mariangela Lombardi ³ , Prof. Paolo Fino ³ , <u>Prof. Livio Battezzati</u> ¹ | M.Sc. Raphael Schiedung ¹ , Marvin Tegeler ¹ , Fathollah Varnik ¹ |
| | ¹ Università Di Padova, Padova, Italy, ² Ecor Research S.p.a., Schio (VI), Italy | ¹ CEMES-CNRS UPR 8011, Toulouse, France, ² MATEIS-INSA, Lyan, France, ³ SIMAP, Grenoble, France | ¹ Università di Torino, Torino, Italy, ² Istituto Italiano di Tecnologia, Torino, Italy, ³ Politecnico di Torino, Torino, Italy | ¹ Ruhr University Bochum, Bochum, Germany |
| | A POSSIBLE EXPLANATION FOR THE DELAY IN MICRO-DISCHARGES APPEARANCE DURING PEO OF AI | SPARK PLASMA SINTERING AND STRUCTURAL STUDY OF GRAPHENE NANOPLATELET REINFORCED CERAMIC COMPOSITES | IMPACT OF RESIDUAL OXYGEN IN ARGON ATMO- SPHERE DURING LASER BEAM MELTING (LBM) ON THE MECHANICAL PROPERTIES OF ALSI(Mg) AND Ti-6AI-4V | WETTING AND JOINING OF SIC CERAMICS BY AL-TI ALLOYS |
| 12.20 | Julien Martin ¹² , Alexandre Nominé ³ , Vitalios Ntom- prougkidis ¹ , Cédric Noël ¹ , Thierry Czerwiec ¹² , Thierry Belmonte ¹ , Gérard Henrion ¹² | Phd Lili Nadaraia' | Kai Dietrich ¹² , Pierre Forêt ¹ , Dominik Bauer ¹ , Prof. DrIng. habil. Gerd Witt ² | Dr Fabrizio Valenza ¹ , Dr Valentina Casalegno ² , M.Sc Sofia Gambaro ¹ , M.Sc Maria Luigia Muolo ¹ , Dr Alberto Passerone ¹ , Prof Milena Salvo ² |
| | Institut Jean Lamour - UMR 7198 CNRS - Université de Lorraine, Nancy, France, l'Aßoratory of Ekcellence Design of Alloy Metals for low-mAss Structures LABEX DAMAS - Université de Lorraine, Metz, France, 'Depart- ment of physical sciences - The Open University, Milton Keynes, United Kingdom | ¹ Georgian Technical University, Tbilisi, Georgia | ¹ Linde AG, Munich, Germany, ² University Duisburg - Essen, Duisburg, Germany | 'National Research Council – Institute of Condensed Matter Chemistry and Technologies for Energy (CNR-ICMATC), Genoa, Italy, 'Politecnico di Torino, Department of Applied Science and Technology, Turin, Italy |
| | HYBRID COATINGS WITH CU-BASED NANOPAR- TICLES ON POLYMER AND STEEL SURFACES FOR BIO-FOULING CONTROL | SPARK PLASMA SINTERING (SPS): EVALUATION OF THE REPEATABILITY OF THE PROCESS TO ELABO- RATE TI-6AI-4V NEAR NET SHAPE (NNS) SPECIMENS | | INTERFACIAL REACTIVITY IN THE AL3TI-SIC SYSTEM |
| 12.40 | Stavros Arvanitis ¹ , Theodora Karamanidou ² , Nikolaos Michailidis ¹ , Alexandros Tsouknidas ² , Dimitrios Tsipas ² | Dr Ugras KUS ¹ , Dr Julitte HUEZ ¹ , Dr Denis DELAGNES ² , Master Geoffroy CHEVALLIER ¹ , <u>Dr Claude ESTOURNES</u> ¹ | | Sofia Gambaro¹, G. Cacciamani¹², F. Valenza¹, A. Passerone¹, M.L. Muolo¹, O. Dezellus³ |
| | ¹ Aristotle University Of Thessaloniki, Thessaloniki, Greece, ² PLIN Nanotechnology SA, Thermi, Greece | [†] CIRIMAT, Toulouse, France, [†] ICA Mines Albi, Albi, France | | Institute of Condensed Matter Chemistry and Technologies for Energy- National Research Council (ICMATE-CNR), Genova. (Idly: Department of Chemistry and Industrial Chemistry, University of Genova, Genova, Italy, 32 LM, Université Lyon 1, CNR, Villeurbanne Cedex, France |
| | TOWARDS THE PLASMONIC OPTICAL NANOPORE ON PYRAMID | | | |
| 13.00 | Professor Seong Soo Chei'. Professor Myoung Jin Park'. Professor Doo Jae Park'. Professor Yong-Sang Kim'. Professor Chul Hee Han'. Professor Seh-Joong Oh'. Professor Soo Bong Choi ^a . Professor Namkyou Park ⁴ | | | |
| | ¹ Research Center For Nanobio Science. Sunmoon Univ., Chun An, South Korea, ² Korea Military Academy, Seoul, Souly Korea. ³ Hallym University, Chuncheon, South Korea, ⁴ Sungkynukwan University, Suwon, South Ko- rea. ³ Inchon National University, Inchon, South Korea, ⁴ Seoul National University, Seoul, South Korea | | | |



| Symposium | C8 | C9 | C10 | C11 |
|---------------|---|--|---|--|
| Room | Library Hall/M2 | Conference Room 3/M1 | F 319/M1 | MOYSA Hall/M2 |
| Session Title | General Interest | Material removal processes II | Microstructure stability, recrystallization and deformation behaviour | 2D and organic materials and devices |
| Chairperson | Koulis Pericleous | Prof. Konstantinos-Dionyssios Bouzakis | M. Vedani and E. Gariboldi | Alain Claverie |
| | DISPERSION OF OXIDE NANO-PARTICLES IN LIQUID METAL MELTS USING CONTACTLESS ULTRASONIC CAVITATION AND ELECTROMAGNETIC STIRRING | KEYNOTE/INVITED CHALLENGES AND OPPORTUNITIES IN MACHINING DIFFICULT-TO-CUT ALLOYS UNDER SUSTAINABLE LUBRICATION AND COOLING CONDITIONS | HIGHLIGHT GRAIN BOUNDARY SEGREGATION IMPACTS STRENGTH AND ANNEALING BEHAVIOUR OF AN ULTRAFINE-GRAINED 316 STEEL | KEYNOTE/INVITED MOLECULAR BEAM EPITAXY OF TWO DIMENSIONAL MATERIALS FOR NANOELECTRONICS |
| 11.00 | Professor Koulis Pericleous ¹ , Professor Valdis Bojar- evics ¹ , Dr Bruno Lebon ¹ , Dr Anton Manoylov ¹ | | Dr Nariman Enikeev ^{1,2} , Marina Abramova ¹ , Prof Ruslan Valiev ^{1,2} , Dr Xavier Sauvage ³ | |
| | 'University of Greenwich, London, United Kingdom | Paolo C. Priarone ¹ , Matteo Robiglio ¹ , <u>Luca Settineri</u> ¹ | Institute of Physics of Advanced Materials. Ufa State Aviation Technical University, Ufa, Russian Federation, *Research Loboratory for Mechanics of Bulk Nano- materials, Saint Petersburg State University, Saint Petersburg, Russian Federation, *Normandie Univ, UNIROUEN, INSA Rouen, CNRS, Groupe de Physique des Matériaux, Rouen, France | Dr. Ahanasios Dimoulas! ² , Dr. Polixronis Tsipas!, Dr. Dimitra Tsoutsou!, Mr. Sigiava Giamini!, Dr. Jose Marquez-Velasco¹, Dr. Carlos Alvarez², Dr. Hanako Okuno³, Dr. Gilles Renaud⁴ |
| | MULTISCALE MODELLING OF DENDRITIC GROWTH BY A COMBINATION OF THREE METHODS | | DYNAMIC TRANSFORMATION DURING THE SIMULATED PLATE ROLLING OF AN X70 PIPELINE STEEL | |
| 11.20 | Romain Fleurisson¹, Gildas Guillemot¹, Charles-André Gandin¹ | ¹ Politecnico Di Torino, Department of Management and Production Engineering, Torino, Italy | Mr. Samuel Rodrigues ¹² , Mr. Clodualdo Aranas Jr. ¹ , Mr. John Jonas ¹ , Mr. Fulvio Siciliano ³ | INCSR Demokritos, Athens, Greece, ² LANEF Chair of Excellence, Univ. Grenoble Alpes and CEA, Grenoble, France, ³ CEA Minatec, Grenoble, France, ⁴ Univ. Grenoble Alpes and CEA, Grenoble, France |
| | MINES ParisTech, PSL - Research University, CEMEF - Centre for material forming, CNRS UMR 7635, Sophia Antipolis, France | | McGill University, Montreal, Canada, ² Federal Institute of Science, Education and Technology of Maranhão, São Luís, Brazil, ³ Dynamic Systems Inc., Poestenkill, United States of America | |
| | THE OPTIMIZATION OF GATING SYSTEM FOR CAST STEEL CASTINGS | STUDY OF RESIDUAL STRESS DISTRIBUTION NEAR THE HOLE EDGE IN AERONAUTICAL STRUCTURES AFTER DRILLING | RECRYSTALLIZATION PHENOMENA IN COLUMNAR AND EQUIAXED ZONE OF FERRITIC STAINLESS STEEL AND ITS EFFECT ON RIDGING PROPERTY | A LIFT-OFF METHOD FOR WAFER SCALE HETERO-STRUCTURING OF 2D MATERIALS |
| 11.40 | Dsc., PhD, University Professor Jan Jezierski ¹ , MSc., Eng. Rafał Dojka ¹ , Professor John Campbell ² | Yann Landon ¹ , Manuel Paredes ¹ , Clément Chirol ² | Pranabananda Modak ¹ , Sudipta Patra ¹ , Debalay Chakrabarti ¹ | Mr. Nikos Aspiotis ¹ , <u>Mr. Omar Abbas</u> ¹ , Dr. Ioannis Zeimpekis ¹ , Dr. Sakellaris Mailis ¹ , Dr. Pier Sazio ¹ , Dr. Chung-Che Huang ¹ , Prof. Daniel Hewak ¹ |
| | 'Silesian University of Technology, Faculty of Mechan- ical Engineering, Department of Foundry Engineering, 44-100 Gliwice, Towarowa 7, Poland, 'Department of Metallurgy and Materials, University of Birmingham, Birmingham, United Kingdom | ¹ Université de Toulouse - Institut Clément Ader (ICA), Toulouse, France, ² Airbus Operations S.A.S, Toulouse, France | 'IIT Kharagpur, Kharagpur, India | ¹ Optoelectronics Research Centre , University of Southampton, Southampton, United Kingdom |
| | PRODUCTION OF CARBON FIBERS REINFORCED AL-ALLOY MATRIX COMPOSITES | PROPOSAL OF 'PEEL CUTTING' FOR METALS WITH HARD OXIDE LAYER | MICROSTRUCTURE AND PROPERTIES OF ULTRAF- INE-GRAINED OR NANOCRYSTALLINE AUSTENITIC AND FERRITIC-MARTENSTIC STEELS PROCESSED BY ECAP OR HPT | AB-INITIO STUDY OF THE STABILITY AND GEOMETRY OF SMALL FRAGMENTS OF 2D GeSe AND THEIR EXCITATION ENERGIES |
| 12.00 | Anıl Alten¹, Dr. Gökçe Hapçı Ağaoğlu¹, Dr. Eray Erzi¹, Assoc. Prof. Derya Dışpınar¹, Prof. Dr. Gökhan Orhan¹ | Dr. Eng. Eiji Shamoto ¹, Ikuya Onozato¹, Dr. Eng. Koichi Akazawa² | Research Assistant Professor Haiming Wen ¹² | Prof. Hariton Polatoglou ¹ , M.Sc. Giorgos Kymionakis ¹ |
| | ¹Istanbul University | ¹Nagoya University, Nagoya, Japan, ²Kobe Steel, Ltd., Kobe, Japan | Idaho State University, Idaho Falls, United States, Idaho National Laboratory, Idaho Falls, United States | ¹ Aristotle Univ. Of Thessaloniki, Thessaloniki, Greece |
| | IN SITU CYCLING STABILITY EVALUATION IN AN ENCAPSULATED HIGH-TEMPERATURE PHASE CHANGE MATERIAL SYSTEM | A MULTI-PARAMETER EXPERIMENTAL AND STATISTICAL ANALYSIS OF SURFACE ROUGHNESS IN TURNING OF HIGH DENSITY POLYETHYLENE MATRIX METAL PARTICULATE COMPOSITE | MECHANICAL AND METALLOGRAPHIC OBSERVATION OF STEEL SPALL FRACTURE | LARGE AREA GRAPHENE FIELD-EFFECT TRANSISTORS WITH OPTIMIZED TRANSFER METHOD |
| 12.20 | Phd Candidate Selmar Binder ¹ , Professor Sophia Haussener ¹ | Professor Nikolaos Vaxevanidis', Ing. (MSc) Nikolaos Fountas', Dipl-Ing. (MSc) George Seretis', Professor Christoforos Provatidis', Professor Dimitrios Manolakos ³ | Doctor Sergey Plotnikov ¹ , Vladimir Oleshko ² , <u>Amanzhol Turtybekuly</u> ¹ | Mr Panagiotis Karakolis ¹ , Mr Dimitrios Patros ¹ , Mr Markos Kokavesis ¹ , Mr Stavros Katsiaounis ² , Dr John Parthenios ³ , <u>Dr Konstantinos Papagelis²,</u> Dr Vassilios Ioannou-Sougleridis ¹ , Dr Pascal Nor- mand ¹ 1 Panagiotis Dimitrakis ¹ |
| | ¹ Loboratory for Renewable Energy Science and Engineering, École Polytechnique Fédéral de Lausanne, Lausanne, Switzerland | *Loboratory of Manufacturing Processes and Machine Tools (LMProMaT), Department of Mechanical Engineering Educators, School of Pedagogical and Technological Education (ASPETE), Greece, *Section of Mechanical Design & Automatic Control. School of Mechanical Engineering, National Technical University of Athens (NTUA), Greece, *Section of Manufacturing Technology, School of Mechanical Engineering, National Technical University of Athens (NTUA), Greece | ¹ D. Serikbayev East Kazakhstan State Technical University, Ust-kamenagorsk, Kazakhstan, ² Tomsk Politechnic University, Tomsk, Russia | ¹ Institute Of Nanoscience And Nanotechnology-NCSR 'Demokritos', Aghia Paraskevi, Greece, ³ Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas, Patras, Greece |
| | | CREATING AND DEVELOPMENT AIRFLOW TEST CRITERIA FOR GAS TURBINE NOZZLES AND BLADES | OBSERVATION OF OXIDATION AND DECOMPOSITION PROCESSES IN NANOCRYSTALLINE ALLOYS | ENVIRONMENTAL ASSESSMENT OF BHJ ORGANIC PV TECHNOLOGY AS APPLIED TO A PORTABLE SOLAR CHARGER IN DIFFERENT EUROPEAN CONTEXTS |
| 12.40 | | <u>Senior Expert Hazhir Shahabbaspour</u> ', expert pouria Raissi | Mr Jinming Guo ¹ , Dr Julian Rosalie ¹ , Professor Reinhard Pippan ¹ , Dr Zaoli Zhang ¹ | Edis Glogic ¹² , Steffi Weyand ³ , Dr Michael Tsang ² , Dr Guido Sonnemann ⁴ , Dr Steven Young ¹ , Dr Liselotte Schebek ³ |
| | | ¹Mapna Group. Tehran. Iran | ¹ Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria | ¹ University Of Waterloo, Waterloo, Canada, ² University of Bordeaux, Bordeaux, France, ³ Technische Universität Darmstadt, Darmstadt, Germany |
| | | | | |
| 13.00 | | | | |
| | | | | |

EUROMAT2017 13<u>3</u>

FINAL PROGRAM/FRIDAY/AM2



| Symposium | D1 | D5 | D6 | D8 |
|---------------|--|---|--|---|
| Room | Artist Cafe/M1 | I-15/M1 | I-08/M1 | I -16/M1 |
| Session Title | SPECTROMICROSCOPY & IMAGING | Precipitates and Alloy Design | "Multi-Length-Scale Innovations in Damage Evolution in Materials: Characterization, Modeling, and Validation" | Fundamental advances in ab initio methodology and applications |
| Chairperson | Andreas Stark and Gema Martinez Criado | Ingo Steinbach | Saryu Fensin | Liverios Lymperakis |
| | HIGHLIGHT TOWARDS AMBIENT PRESSURE IN THE CHARACTERIZATION OF MATERIALS AT THE MICRO- AND NANO-SCALE BY SCANNING PHOTOEMISSION IMAGING AND SPECTROMICROSCOPY | PRECIPITATE NUCLEATION IN HIGHLY SUPERSATURATED SOLID SOLUTIONS | KEYNOTE/INVITED RECENT ADVANCES IN QUANTIFYING INTERGRANULAR CORROSION DAMAGE ON AI ALLOYS | KEYNOTE/INVITED MODELLING STRUCTURAL MATERIALS IN REALISTIC ENVIRONMENTS BY AB INITIO THERMODYNAMICS |
| 11.00 | <u>Matteo Amati</u> ¹ , Hikmet Sezen ¹ , Luca Gregoratti ¹ | Prof. Ernst Kozeschnik [†] . Prof. Bernhard Sonderegger ² | | |
| | ¹ Elettra-Sincrotrone Trieste, Strada Statale 14 - km 163,5 in AREA Science Park 34149, Trieste, Italy | ¹ TU Wien, Institute of Materials Science and Technology, Wien, Austria, ² TU Graz, Institute of Materials Science, Joining and Forming, Graz, Austria | Bonzom Rémy ¹ , <u>Dr Roland Oltra</u> ¹ , Delfosse Jérome ² | Prof. Joerg Neugebauer', Dr. Tilmann Hickel', Dr. Blazej Grabowski' |
| | ULTRA-HIGH SPEED HARD X-RAY IMAGING AT ESRF: APPLICATIONS TO ENGINEERING MATERIALS | HIGHLIGHT PHASE FIELD MODELING OF DIFFUSION-LIMITED PRECIPITATION IN MULTI-COMPONENT NI-BASED SUPERALLOYS | | |
| 11.20 | Dr. Margie Olbinado¹, Mr. Xavier Just², Dr. Jean-Louis Gelet³, Dr. Mario Schee(⁴, Dr. John Morse¹, Dr. Alexander Rack¹ | Dr. Michael Fleck', Dr. Leslie T. Mushongera ² , M.Sc. Frank Querfurth ³ , M.Sc. Markus Thäter ⁴ , M.Sc. Philipp Amend ⁶ , Dr. Julia Kundin ¹ , Prof. Dr. Heike Emmerich ¹ , Prof. Dr. Uwe Glatzel ¹ | [†] CNRS -Univ. Bourgogne, Dijon, France, [‡] AIRBUS Group Innovations, Suresnes, France | ¹ Max-Planck-Institut fuer Eisenforschung, Duesseldorf, Germany |
| | ¹ European Synchrotron Radiation Facility (ESRF), 38000 Grenoble, France, ² Université Grenoble Alpes - CNRS - SIMAP, 38000 Grenoble, France, ³ MERSEN France - SB, 69720 Saint Bonnet de Mure, France, ⁴ Synchrotron SOLEIL, 91192 Gif-sur-Yvette, France | ¹ University Of Bayreuth, Bayreuth, Germany, ² Karl- sruher Intitute for Technology (KIT), Karlsruhe, Ger- many, ³ Teconsult preccion robotics GmbH, Bayreuth, Germany, ⁴ Rehau, Bayreuth, Germany, ⁵ AX-Lightness, Creußen, Germany | GRAIN BOUNDARY DIFFUSION OF IONS AND ELECTRONS IN A HEXAGONAL CELL MODEL Markus Tautschnig¹, Prof Nicholas Harrison¹, | |
| | TOMOGRAPHIC COHERENT DIFFRACTION IMAGING AT THE ESRF BEAMLINE ID10 | HIGHLIGHT NEW EXTENSIONS FOR THE EFFICIENT DEVELOPMENT OF CALPHAD-BASED ICME-TOOLS: DEVELOPMENT OF PROPERTY MODELS FOR MARTENSITIC STEELS | | PHASE COMPOSITION AND THERMODYNAMIC PROPERTIES OF HIGH-ENTROPY ALLOYS FROM FIRST-PRINCIPLES MODELLING |
| 11.40 | <u>Dr Federico Zontone</u> ¹ , Dr Yuriy Chushkin ¹ | DrIng. Ralf Rettig ¹ , Arun Kumar ¹ , Ph. D. Johan Jeppsson ¹ , Ph. D. Qing Chen ¹ , Ph. D. Johan Bratberg ¹ , Ph. D. Anders Engström ¹ | | Jan Wrobel ¹² , Duc Nguyen-Manh ² , Sergei Dudarev ² , Isaac Toda-Caraballo ³⁴ , Pedro Rivera-Diaz-del-Castil- lo ³ , Zhao Leong ⁴ , Russell Goodall ⁴ , Iain Todd ⁴ , Antonio Fernandez-Caballero ²⁵ , Krzysztof Kurzydlowski ¹ |
| | ¹ ESRF - The European Synchrotron, Grenoble, France | ¹ThermoCalc Software AB, Solna, Sweden | ¹Imperial College London, London, United Kingdom | "Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, "CCFE, UK Atomic Energy Authority, Abingdon, UK, "Department of Materials Science and Metallurgy, University of Cambridge, Cambridge, UK, "Upeartment of Materials Science and Engineering, University of Shefflield, Shefflield, UK, "School of Mechanical, Aerospace and Civil Engineering, University of Manchester, Manchester, UK, "Materalia Research Group, Department of Physical Metallurgy, Centro Nacional de Investigaciones Metalurgicas (CENIM-CSIC), Spain |
| | MEASUREMENT OF STRESS FIELD IN DEFORMED MATERIAL AT THE MICRON SCALE: COMBINING LAUE MICRODIFFRACTION WITH DIGITAL IMAGE CORRELATION, AND RELATED ACCURACY | SIMULATION OF THE BAINITE TRANSFORMATION IN ADVANCED HIGH-STRENGTH STEELS UNDER PARAEQUILIBRIUM DRIVING FORCES | THE AFFECT OF GRAIN SIZE ON DAMAGE AND FAILURE IN TWO-PHASE MATERIALS | Ni13Co3Mn13Sn3 HEUSLER ALLOY: INVESTIGATION FROM FIRST PRINCIPLES |
| 12.00 | <u>Dr Olivier Castelnau</u> ', Dr Fengguo Zhang', Dr Johann Petit ² , Dr Michel Bornert ³ , Dr Odile Robach ⁴ , Dr Jean-Sebastien Micha ⁴ | <u>Dr Helen Kamoutsi</u> ¹, Konstantinos Psyridis¹, Dr Gregory Haidemenopoulos¹ | <u>Dr. Saryu Fensin</u> ¹, Dr. David Jones¹, Dr. Ellen Cerreta¹, Daniel Martinez¹, Carl Trujillo¹, Dr. George Gray III¹ | Professor Vasily Buchelnikov ¹ , Vladimir Sokolovskiy ¹ , Mikhail Zagrebin ¹ |
| | ¹ Laboratory PIMM (Arts & Metiers ParisTech / CNRS), Paris, France, ¹ LEME, Univ. Paris Quest, Ville d'Avray, France, ³ Laboratoire Navier (ENPC/IFSTTAR/CNRS), Marne (a Vallee, France, [*] CEA and CRG-IF BM32 at ESRF, Grenoble, France | 'Uth, Volos, Greece | ¹ Los Alamos National Laboratory, Los Alamos, United States | 'Chelyabinsk State University, Chelyabinsk, Russian Federation |
| | MICROSTRUCTURE EVOLUTION DURING FAST COOLING STUDIED BY IN SITU X-RAY TECHNIQUES | ALLOY DESIGN OF MEDIUM-MN STEELS BASED ON COMPUTATIONAL THERMODYNAMICS AND MULTI-OBJECTIVE OPTIMIZATION | MULTI-WAVELENGTH RAMAN MICROSCOPY: A SUITABLE TOOL FOR CHARACTERIZING SURFACES IN INTERACTION WITH PLASMAS IN THE FIELD OF NUCLEAR FUSION | TENSORIAL ELASTIC PROPERTIES AND STABILITY OF INTERFACE STATES ASSOCIATED WITH \$5(210) GRAIN BOUNDARIES IN NI3(AL,SI) |
| 12.20 | Helena Van Swygenhoven ¹ , Steven Van Petegem ¹ | Mr. John Aristeidakis¹. Professor Greg Haide- menopoulos¹ | Cedric Pardanaud ¹ , C. Martin ¹ , P. Roubin ¹ | Dr. Martin Friak ¹² , Dr. Monika Vsianska ²¹ , Associated Professor David Holec ³ , Professor Mojmir Sob ^{2,1,4} |
| | ¹ Paul Scherrer Institut, Switzerland | ¹ University Of Thessaly, Volos, Greece | ¹Aix-marseille Université, Marseille, France | 'Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic, 'Central European Institute of Technology, CEITEC MU, Masaryk University, Brno, Czech Republic, 'Department of Physical Metallurgy and Materials Testing, Montanuniversitaet Leoben, Leoben, Austria, 'Department of Chemistry, Faculty of Science, Masaryk University, Brno, Czech Republic |
| | | A MULTI-SCALE FE-FFT APPROACH TO STUDY MICROSTRUCTURAL EVOLUTION DURING BIAXIAL STRAIN PATH CHANGES OF SHEET METALS AND ALLOYS | STRUCTURE / PROPERTY (CONSTITUTIVE AND DY- NAMIC STRENGTH / DAMAGE) CHARACTERIZATION OF ADDITIVELY MANUFACTURED (AM) TANTALUM | PLANAR DEFECTS IN NI AND Co BASED SUPERALLOYS |
| 12.40 | | Dr. Manas V Upadhyay ¹ , Dr. Steven Van Petegem ¹ , Dr. Tobias Panzner ² , Dr. Anirban Patra ³ , Dr. Wei Wen ³ , Dr. Ricardo A Lebensohn ³ , Dr. Carlos Tome ³ , Prof. Dr. Helena Van Swygenhoven ^{1,4} | Dr. George Gray ¹ , Ms. Veronica Livescu ¹ , Mr. Cameron Knapp ¹ , Mr. Carl Trujillo ¹ , Mr. Daniel Martinez ¹ , Ms. Roberta Beal ¹ , Dr. David Jones ¹ | Aparna Subramanyam ¹ , Dr. Thomas Hammer- schmidt ¹ , Prof. Dr. Ralf Drautz ¹ |
| | | Swiss Light Source, Paul Scherrer Institute, Villigen PSI. Switzerland. *Laboratory for neutron scattering, Paul Scherrer Institute, Villigen PSI. Switzerland, 4MS-Te, Los Alamos National Laboratory, Los Alamos, USA. *Neutrons and X-rays for Mechanics of Materials, MX, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland | ¹ Los Alamos National Laboratory, Los Alamos, United States | 'ICAMS. Ruhr-University Bochum, Bochum, Germany |
| | | | | ELECTRONIC ORIGIN AND STRUCTURAL INSTABILITIES OF TI-BASED ALLOYS FOR ORTHOPAEDIC IMPLANTS |
| 13.00 | | | | Accos Prof Christina Lekka , Dr J.J. Gutierrez-Moreno ² , Prof Mariana Calin ³ |
| | | | | 'University Of Ioannina, Ioannina, Greece, ⁻ Tyndall National Institute, Cork, Ireland, ³ IFW Dresden, Dresden, Germany |



| Symposium | D10 | E6 | F5 | F6 |
|---------------|---|--|---|---|
| Room | CR II Hall/M2 | Maurice Saltiel Hall II/M2 | Conference Room 1/M1 | Conference Room 2/M1 |
| Session Title | Segregation | Modeling, Simulation and Optimization | "Translation of biomaterials research towards innovation and product development: from concepts to clinic" | Structural properties of bio-inspired materials |
| Chairperson | Schuler-Luca Messina | Kayvantash | Jérôme CHEVALIER | Richard Weinkamer |
| | HIGHLIGHT MOLECULAR DYNAMICS AND MONTE CARLO COUPLING FRAMEWORK FOR SOLUTE SEGREGATION MODELING USING DIFFERENT PARALLELIZATION APPROACHES | EUROPEAN MATERIALS MODELLING COUNCIL | HIGHLIGHT HYBRID COLLAGEN/APATITE SCAFFOLDS OBTAINED BY BIO-INSPIRED MINERALIZATION PROCESS RE- GENERATING BONE AND OSTEOCHONDRAL TISSUES | HIGHLIGHT FIELD ASSISTED SINTERING AND MECHANICAL PROPERTIES OF BIOINSPIRED CERAMIC/METAL LAMINATED COMPOSITES |
| 11.00 | M.Sc Hariprasath Ganesan¹, Dr. Carlos Teijeiro¹, Prof. Dr. Godehard Sutmann¹² | Dr. Nadja Adamovic¹ | Phd Anna Tampieri ¹ , PhD Monica Sandri ¹ , PhD Simone Sprio ¹ , M.Sc. Elisabetta Campodoni ¹ | Malgorzata Marcinkowska ¹² , Sylvain Meille ¹ , Eric Maire ¹ , Jérôme Chevalier ¹ , Sylvain Deville ² |
| | Interdisciplinary Centre for Advanced Materials Siterdisciplinary (CAMS), Ruhr-University Bochum, Bochum, Germany, Zülich Supercomputing Centre (JSC), Institute for Advanced Simulation (IAS), Forschungszentrum Jülich, Jülich, Germany | ¹ Vienna University of Technology, Institute of Sensor and Actuator systems | ¹Institute Of Science And Technology For Ceramics, National Research Council, Faenza, Italy | *Université de Lyon, INSA Lyon, MATEIS UNR CNRS 5510, Villeurbanne, France, *LSFC, UMR3080 CNRS/ Saint-Gobain, Cavaillon, France |
| | MONTE CARLO STUDY OF INTERSTITIAL DIFFUSION IN THE PRESENCE OF SOLUTE ATOM TRAPS | THE CHALLENGE OF REVERSING THEORIES TO HYBRIDIZE STRUCTURES WITH FIBRE METAL LAMINATES | ANTIMICROBIAL COPPER-BASED ALLOYS TOUCH SURFACES — CURRENT ACHIEVEMENTS AND CHALLENGES | HOW DOES THE COORDINATION OF CROSS-LINKS INFLUENCE THE MECHANICAL BEHAVIOR OF A LINEAR POLYMER CHAIN? |
| 11.20 | Yao V Shan ¹ , Ernst Kozeschnik ¹ | <u>Dr.ir. René Alderliesten</u> ¹ | PhD Monika Walkowicz ¹ , PhD Piotr Osuch ¹ , Prof. Beata Smyrak ¹ , Prof. Andrzej Mamala ¹ , Prof. Tadeusz Knych ¹ , PhD Anna Rozanska ² , PhD Agnieszka Chmielarczyk ² , MSC Dorota Romaniszyn ² , Prof. Malgorzata Bulanda ² | M.sc Huzaifa Shabbir ¹ , <u>Habil Markus Hartmann</u> ¹ |
| | 'Institute of Materials Science and Technology, TU Wien, Vienna, Austria | ¹ Delft University Of Technology, Delft, Netherlands | "AGH University of Science and Technology, Faculty of Non-Ferrous Metals, Department of Metal Working and Physical Metallurgy of Non-Ferrous Metals, Krakow, Poland, Jagiellonian University Medical College, Facul- ty of Medicine, Department of Microbiology, Krakow | ¹ University Of Vienna, Vienna, Austria |
| | MODELING AND EXPERIMENTAL INVESTIGATION OF COPPER PRECIPITATION IN CAST IRON FOR NUCLEAR SPENT-FUEL CANISTERS | A MULTI-AGENT SYSTEM BASED APPROACH FOR ADAPTIVE PROPERTY CONTROL IN SMART LOAD-BEARING STRUCTURES | WEAR STUDY OF TOTAL ANKLE REPLACEMENT EXPLANTS BY MICROSTRUCTURAL ANALYSIS | MULTIRESPONSIVE AND MULTISTRUCTURED BACTERIAL CELLULOSE NANOCOMPOSITES |
| 11.40 | Dr Luca Messina', Prof. Pär Olsson', Dr Zhongwen Chang'. Dr Nils Sandberg'. M.S. Elin Toijer'. Amine Yousfi', Mattlas Thuvander', Bruno Boizot', Gauthier Brysbaert'. Vincent Metayer', Dominique Gorse-Pomonti | DrIng, Dirk Lehmhus ¹ , Dr. Stefan Bosse ¹ , <u>Atra Gemilang</u> ¹ , Prof. DrIng, Matthias Busse ² | Prof. Damien Fabregue ¹ , Sandrine Cottrino ¹ , Arthur Per Cowie ¹ , Jean-Luc BESSE ² , Daniel Hartmann ¹ , Solène Tadier ¹ , Laurent Gremillard ¹ | Muling Zeng', Anna Roig', Irene Anton', Maria Milla', Deyaa Youseff', Jordi Floriach-Clark', Anna May [†] , Anna Roig', <mark>Anna Laromaine</mark> ' |
| | 'ICEA Saclay, Gif-sur-Yvette, France, 'KTH Royal Institute of Technology, Stockholm, Sweden, 'Ichalmers University of Technology, Göteborg, Sweden, 'CNRS-LSI École Polytechnique, Palaiseau, France | ¹ University Of Bremen, Bremen, Germany, ² Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM), Bremen, Germany | 'Mateis Insa Lyon, Villeurbanne, France, ² Hospices Civils de Lyon, Lyon, France | 'Institut de Ciència de Materials de Barcelona, ICMAB-CSIC, Campus UAB. 08193 Bellaterra, Barcelona - Spain, Spain |
| | CLUSTER EXPANSION OF THE ONSAGER MATRIX FOR DILUTE SOLID SOLUTIONS: APPLICATION TO DIFFUSION IN Fe-(C, N, 0) SOLID SOLUTIONS | WOVEN LATTICE MATERIAL (WLM) WITH INCREASING DAMPING AT HIGH FREQUENCIES | HIGHLIGHT FABRICATION OF HYDROXYAPATITE CRANIAL IMPLANTS BY STEREOLITHOGRAPHY, CLINICAL STUDY OF 19 PATIENTS OVER 12 YEARS. | NATURE INSPIRES INNOVATIVE PROCESSES FOR SMART BIOMIMETIC DEVICES |
| 12.00 | Dr. Thomas Schuler ¹² , Dr. Maylise Nastar ² , Dr. Luca Messina ² | Dr Ladan Salari ^a , Dr Stephen Ryan ³ , Manuel Pelacci ¹ , Prof Lorenzo Valdevit ² , <u>Dr Stefan Szyniszewski¹</u> | Mr Christophe Chaput ¹ , Pr Thierry Chartier ² , Pr Joel Brie ³ , Dr Julie Usseglio ³ | Phd Anna Tampieri ¹ , <u>PhD Simone Sprio</u> ¹ , PhD Monica Sandri ¹ , PhD Silvia Panseri ¹ , PhD Monica Montesi ¹ , PhD Michele Iafisco ¹ , PhD Alessio Adamiano ¹ |
| | l'École Nationale Supérieure des Mines de Saint-Éti- enne, 42023 Saint Etienne, France, 'DEN-Service de Recherches de Métallurgie Physique, CEA, Université Paris-Saclay, F-91191 Gif-sur-Yvette, France | University Of Surrey, Guildford, United Kingdom, ² University of California, Irvine, United States, ³ Johns Hopkins University, Baltimore, United States | ¹ 3dceram, Limoges, France, ² SPCTS - CNRS, Limoges, France, ³ Limoges hospital (CHRU), Limoges, France | 'Institute Of Science And Technology For Ceramics, National Research Council, Faenza, Italy |
| | | FLEXURAL AND SHEAR PROPERTIES OF REDUCED GRAPHENE OXIDE/EPOXY REINFORCED CARBON FIBRE HYBRID COMPOSITES | CHALLENGES IN SCALING UP ZIRCONIA BASED— COMPOSITES PROCESSING: FROM THE DEVELOP- MENT OF A MICROSTRUCTURE AT THE LABORATORY SCALE TO AN EFFECTIVE INDUSTRIAL PRODUCTION | MIMICKING HELICOIDAL BIOLOGICAL MATERIALS TO IMPROVE STRENGTH OF SYNTHETIC COMPOSITES |
| 12.20 | | Paddy Jenkins ¹ , Stuart Ingram ¹ , Samrin Khan ² , Kristof Starost ¹ , Pravin Bari ² , Satyendra Mishra ² , <u>James Njuguna</u> ¹ | Dr Helen Reveron', Dr Fei Zhang', Dr Marta Fornabaio ² , Dr Paola Palmero ² , Dr Laura Montanaro ² , Dr Tobias Fürderer ² , Dr Nicolas Courtois ⁴ , Dr Jérôme Chevalier ¹ | MSc Laura Zorzetto ¹ , Dr. Jean-Michel Thomassin ² , Dr. Christine Jérôme ² , Dr. Davide Ruffoni ¹ |
| | | [†] Centre for Advanced Engineering Materials, School of Engineering, Robert Gordon University, Aberdeen, AB10 76J. UK, [‡] University Institute of Chemical Technology, North Maharashtra University, Jalgaon-425001 Maharashtra, India | ¹ Université de Lyon-INSA de Lyon, MATEIS CNRS UMR 5510, 20 Avenue Albert Einstein, F-64621 Villeurbanne Cedex, France, ² Department of Applied Science and Technology, INSTM R.U. PoliTO, LINCE Lab., Politecnico di Torino, Corso Duca degli Abruzzi, 24, 10129 Torino, Italy, ² DOCERAM, MOESCHTER GROUP Holding 6mbH & Co. KG, Hesslingsweg 65 - 67, 44309 Dortmund, Germany, ³ Anthogyr SAS, 237 avenue A. Lasquin, F-74700 Sallanches, France | Department of Aerospace and Mechanical Engineer- ing, Mechanics of Biological and Bio-inspired Materials Research Unit, University of Liege, Liege, Belgium, Department of Chemistry, Center for Education and Research on Macromolecules, University of Liege, Liege, Belgium |
| | | | MECHANICAL ASSESMENT OF A NEW LONG LASTING ZIRCONIA BASED—COMPOSITE: FROM SIMPLE LABSCALE SAMPLES TO REAL DENTAL IMPLANTS CHARACTERIZATION | GROWTH AND SELF-HEALING OF BIOINSPIRED MATERIALS SIMULATED THROUGH A HIERARCHICAL LATTICE SPRING MODEL |
| 12.40 | | | Alethea Liens¹, PhD Helen Reveron¹, PhD Pascal Rey- naud¹, PhD Tobias Fuerderer², PhD Nicolas Courtois³, Professor Jérôme Chevalier¹ | Federico Bosia¹, Lucas Brely¹, Nicola Pugno ²³⁴ |
| | | | ¹ Mateis Laboratory Insa Lyon, Lyon, France, ² DOCERAM MOESCHTER GROUP Holding GmbH & Co KG, Dortmund, Germany, ³ Anthogyr SAS, Sallanches, France | ¹ University of Torino. Torino. Italy, ² University of Trento, Trento, Italy, ³ Queen Mary University, London, London, United Kingdom, ⁴ Italian Space Agency, Roma, Italy |
| | | | | A COMPARISON OF NETTLE FIBERS WITH FLAX IN A FLOREON MODIFIED PLA MATRIX |
| 13.00 | | | | Miss Stella Manoli ¹ |
| | | | | 'University Of Sheffield, Sheffield, United Kingdom |
| | | | | |

EUROMAT2017 13<u>5</u>



| Symposium | A1 | A1(parallel session) | A6 | A9 |
|---------------|--|--|---|--|
| Room | 3-21/M1 | Rehearsal Room 5.17 /M1 | CR I Hall/M2 | I-11/M1 |
| Session Title | Thin layers-Inks-Intercalation | Functionnalization and gas sensing | Structure, mechanical, propulsion, pyrotechnics | Membranes for Gas Separation |
| Chairperson | Matteo Palma | Sotirios Stavropoulos | Ethiraj Venkatapathy | Volker Abetz |
| | HIGHLIGHT THE ROLE OF GRAPHENE IN COPPER OXIDATION: PROTECTING OR ENHANCING AGENT? | HIGHLIGHT COVALENT FUNCTIONALIZATION OF GRAPHENE ACHIEVED VIA CHEMISTRY OF FLUOROGRAPHENE | THE DELETERIOUS EFFECTS OF TIN WHISKER GROWTHS ON SPACECRAFT ELECTRONICS AND MITIGATION PROCESSES THAT INCLUDE ADVANCED MATERIALS | BIOMASS DERIVED FEEDSTOCK FOR POROUS CARBONACEOUS FRAMEWORKS |
| 15.00 | Prof. Alicia De Andrés ¹ , Leo Álvarez-Fraga ¹ , Dr Juan Rubio-Zuazo ² , Dr Felix Jiménez-Villacorta ¹ , Dr Esteban Climent-Pascual ¹ , Dr Javier Bartolomé-Vilchez ¹ , Dr Rafael Ramírez-Jiménez ^{3,1} , Prof. Carlos Prieto ¹ | Prof. Michal Otyepka ¹ , Dr. Aristides Bakandritsos ¹ , Dr. Piotr Blonski ¹ , Dr. Demetrios Chronopoulos ¹ , Dr. Petr Lazar ¹ , Dr. Radek Zbořil ¹ | Professor Barrie Dunn' | <u>Pierluigi Tosi</u> ¹ . Dr Ed de Jong ² . Associate Professor Alice Mija ¹ |
| | ¹Consejo Superior De Investigaciones Científicas, Instituto de Ciencia de Materiales de Madrid, Cantoblanco 28049, Madrid, Spain, ²BM25-SpLine ESRF, 38043, Grenoble, France, ¹Departamento de Física, Escuela Politécnica Superior, Universidad Carlos III de Madrid, Avenida Universidad 30, 28911, Leganés, Spain | ¹ Palacký University Olomouc, Olomouc, Czech Republic | ¹ University of Portsmouth, Portsmouth, United Kingdom | ¹ University of Nice Sophia Antipolis, ICN, Nice, France, ² Avantium Chemicals B.V, Avantium, The Netherlands |
| | GRAPHENE NANOPLATELET BASED ADHESIVES FOR SECONDARY STRUCTURAL APPLICATIONS | CYANOGRAPHENE AND GRAPHENE-ACID: TWO HIGHLY FUNCTIONALIZED AND CONDUCTIVE GRAPHENE DERIVATIVES FROM FLUOROGRAPHITE | MULTI-LAYERED CERAMIC COMPOSITES FOR A SMALL ROCKET COMBUSTION CHAMBER | ADVANCED COMPOSITE MEMBRANES WITH LAYERED FILLERS FOR GAS SEPARATION |
| 15.20 | Dr. Stavros Tsantzalis¹, Dr. Christina Kostagianna- kopoulou¹, Dr. Katerina Kouravelou², Dr. Antonios Vavouliotis²², Dr. Athanasios Baltopoulos², Prof. Vassilis Kostopoulos¹, Dr. Ugo Lafont³ | PhD Aristeidis Bakandritsos¹, PhD Martin Pykal¹, PhD Piotr Blonski¹, PhD Petr Jakubec¹, PhD Demetrios Chronopoulos¹, PhD Vasileios Georgakilas², PhD Kateřina Poláková¹, PhD Athanasios Bourlinos¹³, PhD Václav Ranc¹, PhD Klára Čepe¹, PhD Radek Zboříl¹, PhD Michal Otyepka¹ | Dr Amalia Marinou'. <u>Dr George Vekinis'</u> | <u>Dr Dan Zhao</u> ¹ |
| | ¹ University of Patras. Rio. Patras. Greece. ² Adamant Composites, Platani Patras. Greece. ³ ESA - TEC - OEE, Noordwijk, The Nederlands, ⁴ Pleione Energy, Ag Paraskevi, Attica, Greece | ¹ Regional Centre for Advanced Technologies and Materials, Department of Physical Chemistry, Faculty of Science, Palacky University in Otomouc, 17.listopadu, Otomouc, Czech Republic, ² Department of Materials Science, University of Patras, Patras, Greece, ³ Physics Department, University of Ioannina, Ioannina, Greece | [†] Institute of Nanoscience and Nanotechnology, NCSR [*] Demokritos", Agia Paraskevi Attikis, Greece | 'National University Of Singapore, Singapore |
| | PREPARATION OF FEW LAYERS GRAPHENE DISPERSIONS AS PIGMENTS FOR CONDUCTIVE PAINTS | GAS SENSING PROPERTIES OF FLUORINATED CARBON NANOTUBES | STRESS CORROSION CRACKING BEHAVIOUR AND MICROSTRUCTURAL CHARACTERISTICS OF AL-STEEL WELDS FOR SPACE PROPULSION SYSTEMS | INCREASING THE SELECTIVITY OF POLYMERS OF INTRINSIC MICROPOROSITY BY COMPETITIVE SORPTION |
| 15.40 | Dr KATERINA KAMPIOTI!, Fernando Torres-Canas!, Wilfrid Neni ¹ , Alain Penicaud ¹ , Philippe Poulin ¹ | Ms. Claudia Struzzi ¹ , Dr. Mattia Scardamaglia ¹ , Mr. Juan Casanova Chafer ² , Dr. Nikolay Britun ¹ , Dr. Jean-François Colomer ² , Prof. Rony Snyders ¹ , Prof. Eduard Llobel ² , Dr. Carla Bittencourt ¹ | Dipl.Ing. Grazyna Mozdzen ¹ , Dr. Michael Scheerer ¹ , Dr. Andreas Tesch ² , Dr. Martin Stubenrauch ² , Dr. Jan Persson ² | Dr. Alessio Fuoco ¹ , Dr Bekir Satilmis ^{2,3} , Ms Carmen Rizzuto ¹ , Dr Marcello Monteleone ¹ , Dr Elisa Esposito ¹ , Dr Elena Tocci ¹ , Dr Lidietta Giorno ¹ , Prof Peter M. Budd ² , <u>Dr Johannes C. Jansen</u> ¹ |
| | 'Centre de Recherche Paul Pascal/CNRS, Université de Bordeaux, Pessac, France | 'Université de Mons, Mons, Belgium, 'Universitat Rovira i Virgili, Tarragona, Spain, 'Université de Namur, Namur, Belgium | 'AAC GmbH, Wiener Neustadt, Austria. ² ESA (ESTEC), Noordwijk. The Netherlands, ³ Magna-Steyer Engineer- ing AG & Co KG, Graz, Austria | 'Institute on Membrane Technology (ITM -CNR), Rende, Italy, 'School of Chemistry, University of Manchester, Manchester, United Kingdom, 'Department of Chemis- try, Faculty of Science and Arts, Ahi Evran University, Kirsehir, Turkey |
| | HIGH PERMITTIVITY STRUCTURES PREPARED BY INKJET PRINTING FOR ENERGY STORAGE AND HARVESTING PRESENTING AUTHOR | EFFECT OF STABILIZATION TEMPERATURE ON MICROPOROSITY AND CO ₂ ADSORPTION IN CARBON FIBERS | STRESS CORROSION CRACKING BEHAVIOUR AND MICROSTRUCTURAL CHARACTERISTICS OF AL-STE WELDS FOR SPACE PROPULSION SYSTEMS Dipl.Ing. Grazyna Mozdzen¹, Dr. Michael Scheerer¹ Dr. Andreas Tesch², Dr. Martin Stubenrauch¹, Dr. Jan Persson² **AAC GmbH. Wiener Neustadt, Austria, ²ESA (ESTEC) Noordwijk, The Netherlands, ³Magna-Sleyer Engineing AG & Co KG, Graz, Austria ADVANCED ALUMINIUM ALLOYS FOR CRYO-RESERVOIR APPLICATIONS Dr. Andy Norman¹, Dr G Mozdzen², Dr V Liedtke² **Leuropean Space Agency, Noordwijk, Netherlands, ²Aerospace & Advanced Composites GmbH, Wiener | THE COUPLING TECHNOLOGY OF CO. UTILIZATION AND METHANE CONVERSION USING DUAL-PHASE OXYGEN TRANSPORT MEMBRANE |
| 16.00 | <u>Fernando TORRES-CANAS</u> ', Jinkai Yuan', Wilfrid Neri', Annie Colin', Philippe Poulin' | PhD Student Reyna Ojeda López¹, PhD J. Marcos Esparza-Schulz¹, PhD Guadalupe Ramos-Sánchez¹, PhD student Isaac J. Pérez-Hermosillo¹, PhD Armando Domínguez-Ortiz¹ | <u>Dr Andy Norman</u> ¹ , Dr G Mozdzen ² , Dr V Liedtke ² | Joo Jong Hoon ¹ , <u>Park Jeong Hwan</u> ¹ , Kwon Young-il ¹ . Sin Myung Kang ¹ , Young-jin Ryu ¹ |
| | 'Centre de Recherche Paul Pascal/CNRS, Université de Bordeaux, Pessac, France | ¹ Departamento de Química, Fisicoquímica de Superficies Universidad Autónoma Metropolitana- Iztapalapa, Iztapalapa, México | ¹ European Space Agency, Noordwijk, Netherlands, ² Aerospace & Advanced Composites GmbH, Wiener Neustadt, Austria | ¹Chungbuk National University, Cheongju, South Korea |
| | RAMAN SIGNATURES OF SINGLE LAYER GRAPHENE DISPERSED IN DEGASSED WATER WITHOUT ADDITIVES | SPECTROSCOPIC OBSERVATION OF OXYGEN DISSOCIATION ON NITROGEN-DOPED GRAPHENE | DIRECT METAL PRINTING OF METEORITE METAL | OXYGEN SEMI PERMEABILITY OF CATIO.9FE0.103-Δ |
| 16.20 | Dr George Bepete ² , Dr Carlos Drummond ² , Dr Alain Pénicaud ² , <u>Pr Eric Anglaret¹</u> | Dr Mattia Scardamaglia ¹ , Dr Toma Susi ² , Claudia Struzzi ¹ , Prof Rony Snyders ¹ , Dr Giovanni Di Santo ² , Dr Luca Petaccia ² , Dr Carla Bittencourt ¹ | Dr. Bram Neirinck', irr. Karel Lietaert ^{1,2} , Dr. Lore Thijs', ir. Thomas Lapauw ² , dr. Jonas Van Vaerenbergh ¹ | Mrs Corinne Salles ¹ , Dr Marlu César Steil ^{2,3} , Pr Jacques Fouletier ^{2,3} , Dr Daniel Marinha ¹ |
| | ¹ Laboratoire Charles Coulomb, Université Montpelli- er-CNRS, Montpellier, France, ² Centre de Recherche Paul Pascal, UPR CNRS 5521, Pessac, France | ¹ University Of Mons. Mons. Belgium. ² University of Vienna. Faculty of Physics, Vienna, Austria, ³ Elettra Sincrotrone, Trieste, Italy | ¹ 3DSystems. Leuven, Belgium, ² Department of Materi- als Engineering, KU Leuven, Leuven, Belgium | ¹ Saint-Gobain LSFC. Cavaillon. France. ² Université Grenoble Alpes LEPMI, Grenoble, France, ³ CNRS LEPMI, Grenoble, France |
| | HIGH YIELD PRODUCTION OF GRAPHENE-Fe203 NANO-COMPOSITES VIA ELECTROCHEMICAL INTER- CALATION OF NITROMETHANE AND IRON CHLORIDE | | | HIGHLIGHT HIGH-TEMPERATURE 57Fe MÖSSBAUER STUDIES OF OXIDE MEMBRANE MATERIALS |
| 16.40 | Dr Zhenyuan Xia¹, Prof Catia Arbizzani², Dr Luca Orto- lani³, Dr Vittorio Morandi³, Prof Vincenzo Palermo¹ | | | Prof. Dr. Klaus-Dieter Becker ¹ , Dr. Piotr Gaczynski ¹ , Dr. Anja Harpf ² , Dr. Juergen Boer ² , Dr. Tobias Klande ³ , Dr. Armin Feldhoff ³ , Dr. Robert Kircheisen ² , Dr. Ralf Kriegel ² |
| | listituto per la Sintesi Organica e la Fotoreattività - Consiglio Nazionale delle Ricerche, Bologna, Italy, ² Di- partimento di Chimica, University of Bologna, Bologna, Italy, ³ Istituto per la Microelettronica e Microsistemi - Consiglio Nazionale delle Ricerche, Bologna, Italy | | | ¹ Technische Universität Braunschweig, Institute of Physical and Theoretical Chemistry, Braunschweig, Germany, ² Fraunhofer IKTS, Hermsdorf, Germany, ³ Leibniz Universität Hannover, Institute of Physical Chemistry and Electrochemistry, Hannover, Germany |

FINAL PROGRAM/FRIDAY/PM1

EUROMAT 2017

| Maurice Saltiel Hall I/M2 Advanced Characterisation II Firnst Gamsjäger, Wieslaw Swiatnicki F///W/ITED KE EXTRAORDINARY CRACK RESISTANCE RCHICAL METASTABLE NANO-LAMINATE | 3.20/M1 Composites and other properties Ilchat Sabirov HIGHLIGHT INTERNAL LENGTHS IN SPD MATERIALS Professor Elias Aifantis¹ | CR III Hall/M2 Hybrid and Perovskite Materials, Physical Properties and Devices Dan Zhao KEYNOTE/INVITED HYBRID NANOCARBON-BASED AND BIO-RELATED MATERIALS FOR OPTOELECTRONIC DEVICES | C1 Friends of Music Hall/M1 C1.3: Surface engineering and modifications 3/3 -Fatigue & Wear E. Aperathitis, R. Cremer PULSED PLASM CENTRACE FUNCTIONALIZED |
|--|---|--|--|
| Advanced Characterisation II Ernst Gamsjäger, Wieslaw Swiatnicki F/NV/ITED KE EXTRAORDINARY CRACK RESISTANCE | Composites and other properties Ilchat Sabirov HIGHLIGHT INTERNAL LENGTHS IN SPD MATERIALS | Hybrid and Perovskite Materials, Physical Properties and Devices Dan Zhao KEYNOTE/INVITED HYBRID NANOCARBON-BASED AND BIO-RELATED | C1.3. Surface engineering and modifications 3/3 -Fatigue & Wear E. Aperathitis, R. Cremer PULSED PLASMA SURFACE FUNCTIONALIZED |
| Ernst Gamsjäger, Wieslaw Swiatnicki F/NVITED KE EXTRAORDINARY CRACK RESISTANCE | Ilchat Sabirov <u>HIGHLIGHT</u> INTERNAL LENGTHS IN SPD MATERIALS | Physical Properties and Devices Dan Zhao KEYNOTE/INVITED HYBRID NANOCARBON-BASED AND BIO-RELATED | E. Aperathitis, R. Cremer PULSED PLASMA SURFACE FUNCTIONALIZED |
| E/INVITED KE EXTRAORDINARY CRACK RESISTANCE | <u>HIGHLIGHT</u> Internal Lengths in SPD Materials | KEYNOTE/INVITED HYBRID NANOCARBON-BASED AND BIO-RELATED | PULSED PLASMA SURFACE FUNCTIONALIZED |
| KE EXTRAORDINARY CRACK RESISTANCE | INTERNAL LENGTHS IN SPD MATERIALS | HYBRID NANOCARBON-BASED AND BIO-RELATED | NANOCHVED FOR CENT DELIVERY |
| | Professor Elias Aifantia | | NANOSILVER FOR GENE DELIVERY |
| | FIVIESSUI Euds Aildilus | | Mr. Ajinkya Trimukhe ¹ , Mr. Prasad Pofali ² , Mr. Amogl Vaidya ⁴ , Dr. Prajakta Dandekar ³ , Dr. Ratnesh Jain ² , Dr Rajendrasing Deshmukh ¹ |
| an¹, Motomichi Koyama², Zhang Zhao², | [†] Aristatle University, Thessaloniki, Greece | | ¹ Department of Physics, Institute Of Chemical Technology, Mumbai, India, ² Department of Chemical Engineering, Institute Of Chemical Technology, Mumba India, ³ Department of Pharmaceutical Sciences and Technology, Institute Of Chemical Technology, Mumbai India, ⁴ Institute of Bioinformatics and Biotechnology, Savitribai Phule Pune University, Pune, India |
| Vang¹, Dirk Ponge³, Dierk Raabe³, Tsuzaki², Hiroshi Noguchi² | MECHANICAL PROPERTIES OF BULK METALLIC GLASS COMPOSITES GENERATED BY SEVERE PLASTIC DEFORMATION | Dr. Ruben Costa [†] | MICROSTRUCTURAL STUDY OF SHOT PEENED NICKEL-BASED SUPERALLOY (U720Li) UNDER ISOTHERMAL EXPOSURE |
| | Lisa Krämer ¹ , Verena Maier-Kiener ² , Karoline Kormout ¹ , Yannick Champion ³ , <u>Oliver Renk</u> ¹ , Reinhard Pippan ¹ | | Mr. Dharmesh Kumar ^{1,2} , Dr. Sridhar Idapalapati ¹ , Dr. Wang Wei ² , Dr. Daniel Child ³ , Dr. Thomas Haubold ⁴ , Dr. Wong Chow Cher ² |
| ushu University. nnck Institute fur Eisenforschung | ¹ Erich Schmid Institute of material sciences. Austrian Academy of Science, Leoben, Austria, ² Department Physical Metallury and Materials Testing, Monts nuniversăi of Leoben, Leoben, Austria, ² OMRS Centre National de la Recherche Scientifique, Paris, France | ¹University Erlangen-Nürnberg, Erlangen, Germany | School of Mechanical and Aerospace Engineering, Nanyang Technological University, 50 Nanyang Ave. Singapore: Advanced Remanufacturing and Technology Centre. Agency for Science. Technology and Research (A*STAR), #01/01.3 CleanTech Loop, CleanTech Two. Singapore. *Rolls-Royce Plc, PO Box 31, Derby DE24 8BJ, United Kingdom. *Rolls-Royce Deutschland Ltd & Co KG, Hohemarkstraße 60-70, 61440 Oberursel, Germany |
| IPITATION KINETICS AND ITS INTERACTION ASE TRANSFORMATION IN NANO-STEELS | LIMITING PROCESSES OF SUPERSATURATION | NEW PHOTOACTIVE HYBRID MATERIALS WITH LARGE STOKES SHIFT | FATIGUE OF DENGELING TREATED AL-ALLOYS |
| <mark>ysoula loannidou</mark> ¹, Miss Zaloa Arechabaleta ea¹, MrArjan Rijkenberg³, Mr Ad van Well², fferman¹ | <u>Dr. Karoline Kormou</u> t ¹ , Dr. Pradipta Ghosh ¹ , Prof. Reinhard Pippan ¹ | Claudia Barolo ¹ , Eleonora Conterosito ² , Valentina Toson ² , Giorgio Volpi ¹ , Nadia Barbero ¹ , Valentina Gianotti ² , Alberto Menozzi ³ , Guido Viscardi ¹ , Marco Milanesio ² | Associate Professor Ru Lin Peng¹, Dr Mattias Jonsson², Dr Linnéa Selegård², Dr Markus Ess³, Dr Gert Petersén² |
| ent of Materials Science and Engineering, Delft of Technology, Mekelweg 2, 2626CD Delft, The dds. ² Department of Radiation Science and Technol- University of Technology, Mekelweg 15, 2629JB Netherlands, ³ TATA Steel, 1970CA L/Jmuiden, orlands | ¹ Erich Schmid Institute Of Materials Science, Leoben, Austria | Department of Chemistry and NIS and INSTM Refer- ence Centre Università degli Studi di Torino, Torino, Ita- ly, Dipartimento di Scienze e Innovazione Tecnologica, Università del Piemonte Orientale, Alessandria, Italy, Special Engines Srl, Torino, Italy | ¹ Linköping University, Linköping, Sweden, ² Saab, Linköping, Sweden, ³ Starrag AG, Rorschacherberg, Switzerland |
| RUCTURAL CHANGES DURING THERMAL SING OF STEELS — EVALUATION TECH- FOR IN-SITU X-RAY DIFFRACTION DATA | INFLUENCE OF PROCESSING PARAMETERS ON THE SATURATION MICROSTRUCTURE AND MECHANICAL PROPERTIES OF HPT-DEFORMED NICKEL/CARBON NANOTUBE COMPOSITES | MECHANICAL PROPERTIES AND PHASE TRANSITION MECHANISMS OF HYBRID ORGANIC-INORGANIC PEROVSKITES | SURFACE MODIFICATION OF GEOMATERIALS USING HIGH-POWER NANOSECOND PULSES |
| rof. Ernst Gamsjäger ¹ , red Wiessner ² , Dr. Paul Angerer ³ | Andreas Katzensteiner¹, Timo Müller¹, Prof. Reinhard Pippan¹, Dr. Andrea Bachmaier¹ | Prof. Wei Li¹ | Doctor Of Engineering Science (Dr. habil) Igor Bunin', Doctor Of Engineering Science (Dr. habil) Valentine Chanturiya', Doctor of Engineering Science (Candidate of Sciences) Mariya Ryazantseva', Doctor of Engineering Science (Candidate of Sciences) Irina Khabarova', Graduate Student Nataliya Anashkina', Doctor of Engineering Science (Candidate of Sciences) Elizaveta Koporulina' |
| of Mechanics, Montanuniversitaet Leoben, Austria, ² Anton Paar GmbH, Graz, Austria, Is Center Leoben Forschung GmbH, Leoben, | ¹ Erich Schmid Institute, Leoben, Austria | 'Huazhong University Of Science And Technology, Wuhan, China | 'Institute of Comprehensive Exploitation of Mineral Resources Russian Academy of Science, Moscow, Russian Federation |
| AUSTENITE-FERRITE TRANSFORMATIONS LS STUDIED BY IN-SITU 3D NEUTRON RISATION | | PEROVSKITES FOR PRINTABLE THERMOELECTRIC DEVICES | INVESTIGATION OF AN ADVANCED HEAT TREATMEN' OF Z:Nb7 FOR IMPROVED WEAR RESISTANCE IN TRIBOLOGICAL APPLICATIONS |
| ng Fang ¹ , Dr. Niels van Dijk ¹ , Prof.dr. Ekkes <mark>rof.dr. Sybrand van der Zwaag¹</mark> | | Prof. Andrea Reale ¹ , Dr. Lucio Cinà ² , Dr. Alessandro Lorenzo Palma ¹ , Dr. Fabio Matteocci ¹ , Prof. Aldo Di Carlo ¹ | M.Sc. Mike Mosbacher ¹ , DrIng. Michael Reif ² , DrIng. Mathias Galetz ² , Prof. DrIng. Uwe Glatzel ¹ |
| iversity Of Technology, Delft, Netherlands | | ¹ CHOSE and Dept. Electronic Engineering - Univ. Rome Tor Vergata. Rome, Italy, ² Cicci Research, Italy | "University Bayreuth, Bayreuth, Germany, ² OECHSLER AG, Ansbach, Germany, ³ DECHEMA-Forschungsinstitut Frankfurt am Main, Germany |
| -METHOD: AN ALTERNATIVE METHOD DETERMINATION OF RECRYSTALLIZATION S OF DEFORMED MICROSTRUCTURES | | NANOFLUIDIC ENERGY CONVERSION USING METAL-ORGANIC-FRAMEWORKS | |
| <u>na Eisenhut¹,</u> Prof. Dr. mont. Christian Motz ¹ , n Krämer ⁷ . Dr. Eric Detemple ² | | <u>Dr. Yueting Sun</u> ¹² , Prof. Yibing Li ² , Prof. Jin Chong Tan ¹ | |
| d University, Chair Of Material Science and Saarbrücken, Germany, ² 4G der Dillinger erke, Dillingen Saar, Germany | | Department of Engineering Science, University of Oxford, Oxford, United Kingdom, State Key Laboratory of Automotive Safety and Energy, Tsinghua University, Beijing, P. R. China | |
| | Isuzaki ² , Hiroshi Noguchi ² Ishu University, Inck Institute fur Eisenforschung PITATION KINETICS AND ITS INTERACTION ISE TRANSFORMATION IN NANO-STEELS Soula loannidou!, Miss Zaloa Arechabaleta al, Mr Arjan Rijkenberg ³ , Mr Ad van Well ³ , Ierman ⁴ Ierman ⁴ Iof Iechnology, Mekelweg 2, 28280D Delft, The ds, ³ Department of Rediation Science and Technol- University of Technology, Mekelweg 15, 2829 IB Wetherlands, ³ TATA Steet, 1970CA Ibmuiden, Irlands RICTURAL CHANGES DURING THERMAL INGO OF STEELS — EVALUATION TECH- OR IN—SITU X—RAY DIFFRACTION DATA Iof. Ernst Gamsjäger ⁴ , ed Wiessner ³ , Dr. Paul Angerer ³ Iof Mechanics, Montanuniversitaet Leoben, Iustria, ³ Anton Paar GmbH, Graz, Austria, is Center Leoben Forschung GmbH, Leoben, USTENITE—FERRITE TRANSFORMATIONS S STUDIED BY IN—SITU 3D NEUTRON IUSTENITE—FERRITE TRANSFORMATIONS S STUDIED BY IN—SITU 3D NEUTRON IUSTENITE—FERRITE TRANSFORMATIONS S STUDIED BY IN—SITU 3D NEUTRON IUSTENITE—FERRITE TRANSFORMATIONS OF DEFORMED MICROSTRUCTURES IN PROPERTY OF TECHNOLOGY, Delft, Netherlands | Suzakir, Hiroshi Noguchi* GLASS COMPOSITES GENERATED BY SEVERE PLASTIC DEFORMATION Lisa Krämer, Vernan Majer-Kiener*, Karoline Kormout, Yannick Champion*, Oliver Renk*, Reinhard Pippan* "Erich Schmid Institute of material sciences, Austrian Academy of Science, Leoben, Austria Department Physical Metallurgy and Materials Festing, MSC Centre National de la Recherche Scientifique, Paris, France PITATION KINETICS AND ITS INTERACTION SE TRANSFORMATION IN NANO-STEELS BOTTON AND ALTERNATION IN NANO-STEELS LIMITING PROCESSES OF SUPERSATURATION LIMITING PROCESSES OF SUPERSATURATION LIMITING PROCESSES OF SUPERSATURATION Dr. Karoline Kormout*, Dr. Pradipta Ghoshi*, Proc. Reinhard Pippan* Fro. Reinhard Pippan* Limiting Processes of Supersaturation of Echochy Metallers of Exhancing, Metall | GLASS COMPOSITES GENERALTED BY SEVERE PLASTIC DEFORMATION Lisa Kramer' Verena Maier-Komer', Karoline School Composition of Co |



| Symposium | Al ZUI/ | C4 | C5 | C5(PARALLEL SESSION) |
|---------------|--|--|---|--|
| Room | Maurice Saltiel Hall III/M2 | Conference Room 4/M1 | Museum Hall /M2 | Aimilios Riadis Hall/M2 |
| Session Title | SPS and tailored microstructures | Testing, characterization and modeling for Additive Manufacturing 2 | Grain boundaries | Interfaces |
| Chairperson | Michael Josse | Ilaria Cristofolini | George Kaptay, Javier Narciso | Boris Straumal, Fabrizio Valenza |
| | HIGHLIGHT A NEW MANUFACTURING PROCESS OF POROUS MATERIALS WITH HIGHLY DIRECTIONAL MICROPORES. APPLICATION TO THE MANUFACTURING OF HYBRID LATTICE STRUCTURES/MICROPOROUS PARTS FOR MECHANICAL STRENGTHENING | SURFACE CHEMISTRY OF POWDER FOR ADDITIVE MANUFACTURING AND ITS CHANGES DURING AM PROCESSING | KEYNOTE/INVITED GRAIN BOUNDARY WETTING BY A SECOND SOLID PHASE | KEYNOTE/INVITED MODELLING PHASE EQUILIBRIA IN NANO-SYSTEMS |
| 15.00 | Oceane Lambert ¹ , Laura Delcuse, Cecile Davoine | PhD Eduard Hryha ¹ , MSc Hans Gruber ¹ , MSc Alexander Leicht ¹ , Dr Ruslan Shvab ¹ , Professor Lars Nyborg ¹ | | |
| | ¹ Onera – The French Aerospace Lab, Chatillon, France | ¹ Chalmers University Of Technology, Gothenburg, Sweden | Prof Boris Straumal ^{1,234} , Dr. Alena Gornakova ¹ , Dr. Andrey Mazilkin ^{2,3} | Professor George Kaptay ¹ |
| | CHARACTERIZATION OF OXIDE DISPERSION STRENGTHENED FUNCTIONALLY GRADED FE-BASED MATERIALS ELABORATED BY POWDER METALLURGY FOR RAILWAY APPLICATIONS | METAL POWDERS FOR ADDITIVE MANUFACTURING: ASSESSMENT OF PROCESSING CHARACTERISTICS | | |
| 15.20 | PhD Student Kaoutar Naji ¹² , Associate Professor Marie-Noëlle Avettand-Fènoël ¹ , Senior executive Philippe Pouligny ² | DrIng. Dirk Lehmhus ¹ , Claus Aumund-Kopp ² , Markus Uhlirsch ² , Lena Sentker ² , Sandra Wieland ² , DrIng. Frank Petzoldt ² , Prof. DrIng. Matthias Busse ² | NITU MISIS, Chernogolovka, Russian Federation, *Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia, *Karlsruher Institut für Technologie (KIT), Institut für Nanotechnologie, Eggenstein-Leopoldshafen, Germany, *National University of Science and Technology «MISIS», Moscow, Russia | 'University Of Miskolc, Miskolc, Hungary |
| | ¹ Unité Matériaux El Transformations (UMET), UMR CNRS 8207. University Lille 1, Villeneuve d'Asca, France, ² SNCF Réseau, Direction Ingénierie et Projets, La Plaine Saint Denis, France | ¹ University Of Bremen, Bremen, Germany, ² Fraunhofer IFAM, Bremen, Germany | , moder, mode | |
| | SINTERING AND ELECTRICAL CHARACTERIZATION OF 8YSZ/GRAPHENE COMPOSITES | DEGRADATION OF STAINLESS STEEL 316L POWDER ASSOCIATED WITH ADDITIVE MANUFACTURING BY EBM AND DMLS | GRAIN BOUNDARY WETTING IN NaCl By Molten Sodium | ENCAPSULATION STRATEGY FOR STABLE METAL PHASE CHANGE MATERIALS USED FOR HIGH- TEMPERATURE HEAT STORAGE APPLICATIONS |
| 15.40 | <u>Daniel Marinha</u> ', Manuel Belmonte ² | Mr. Alexander Leicht ¹ , Prof. Eduard Hryha ¹ , Prof. Lars Nyborg ¹ | Dr Vladimir Traskine¹. Professor Zoya Skvortsova¹. Dilara Farkhutdinova¹ | Phd Candidate Selmar Binder ¹ . Professor Sophia Haussener ¹ |
| | ¹ Saint-gobain CREE, Cavaillon, France, ² Institute of Ceramics and Glass, (ICV-CSIC), Madrid, Spain | ¹ Chalmers University of Technology, Sweden | Professor Zoya Skvortsova¹, Dilara Farkhutdinova¹ ¹Department of Chemistry, Lomonosov University, Moscow, Russian Federation ON RARE-EARTH DOPING AND CRYSTALLIZATION BEHAVIOUR OF BIASI3012 SCINTILLATOR F | 'Laboratory for Renewable Energy Science and Engineering. École Polytechnique Fédéral de Lausanne, Lausanne, Switzerland |
| | EXPERIMENTAL OBSERVATION AND NUMERICAL SIMULATION ON THE ANISOTROPIC SINTERING BEHAVIOR OF FREEZE-CAST CERAMICS | EFFECT OF THE PROCESSING PARAMETERS ON POROSITY FEATURES OF TI6ALGV ALLOY MANUFACTURED BY SLM | | STRAIN SENSING ABILITY AND STRESS TRANSFEI PROFILES OF HIERARCHICAL CARBON FIBERS PRODUCED VIA DIFFERENT METHODS |
| 16.00 | Dr Aaron Lichtner ² , Dr Denis Roussel ¹ , Dr Julie Villanova ³ , Dr David Jauffres ¹ , Pr Rajendra K Bordia ⁴ , <u>Dr Christophe L Martin</u> ¹ | Massimiliano Tomaselli", <u>Professor Alberto Molinari</u> ". Emanuele Magalini ² , Valerio Luchin ² , Gianluca Zappini ² | Professor Jiayue Xu¹, student Yunfang Pan¹, student Haiwei Feng¹, Associate Professor Yaoqing Chu¹, Associate Professor Yan Jhang¹, Engineer Tian Tian¹, Associate Professor Hui Shen¹ | Material Science Engineer Kyriaki Tsirka'. Material Science Engineer Giorgos Karalis'. Professor Alkiviadis Paipetis' |
| | ¹ Univ. Grenoble Alpes, CNRS, SIMaP, Grenoble, France, ² Dept. of Mat. Sci. and Eng. University of Washington, Seattle. USA. "ESRF. The European Synchrotron, Grenoble, France, ⁴ Dept. of Mat. Sci. and Eng., Clemson University, Clemson, USA | ¹ University Of Trento, Trento, Italy, ² Eurocoating SpA, Pergine Valsugana, Italy | ¹ School Of Materials Science And Engineering, Shanghai Institute Of Technology, Shanghai, China | ¹ University Of Ioannina, Ioannina, Greece |
| | MECHANISMS OF REFRACTORY METAL BORIDES AND CARBIDES FORMATION DURING MECHANICAL ALLOYING | MICRO-TENSILE TESTING AM MATERIALS FOR LOCATION SPECIFIC PROPERTIES | SOME CHARACTERISTIC FEATURES OF Ni-Re-P COATINGS ELECTROLESS DEPOSITED ON COPPER | EFFECT OF METAL COATINGS ON THE INTERFACIA BONDING STRENGTH OF CERAMICS TO COPPER IN SINTERED Cu-SIC COMPOSITES |
| 16.20 | <u>Dr Mariia Saviak</u> , Prof. Irina Uvarova | Mr. Michael Duffy'. Dr. Steven Storck'. Dr. Richard Everett', Prof. Marc Zupan' | Prof. Joanna Wojewoda-Budka¹, Dr. Anna Wierz- bicka-Miernik¹, Dr. Honorata Kazimierczak¹, Izabella Kwiecien¹, Lidia Litynska-Dobrzynska¹, Maciej Szczer- ba, Pawel Czaja¹, Jerzy Morgiel¹, Fabrizio Valenza² | PhD Dariusz Jarząbek ¹ , Msc Cezary Dziekoński ¹ , PhD Marcin Chmielewski ² |
| | ¹ Frantsevich Institute for Problems of Materials Science of National Academy of Sciences of Ukraine , Kyiv, Ukraine | ¹ University Of Maryland. Baltimore County. Baltimore, United States, ² Johns Hopkins University Applied Physics Laboratory, Laurel, United States | Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Krakow, Poland, Institute of Condensed Matter Chemistry and Technologies for En- ergy, National Research Council of Italy, ICMATE-CNR, Genoa, Italy | 'Institute Of Fundamental Technological Research, Warsaw, Poland, ² Institute of Electronic Materials Technology, Warsaw, Poland |
| 16.40 | | TESTING AND QUALIFICATION IN METAL ADDITIVE MANUFACTURING | | EXPERIMENTAL INVESTIGATION OF THE SYSTEM NON-METALLIC INCLUSION-MOLTEN STEEL-RE-FRACTORY AT HIGH TEMPERATURES |
| | | Technical Director, Metals Technology Prabir CHAUDHURY | | Ing. Quim. Uxia Dieguez Salgado ¹ , DiplIng. Philip Dorrer ¹ , DiplIng. Dr. mont. Susanne Michelic ¹ , Ao. UnivProf. DiplIng. Dr. mont. Christian Bernhard ¹ |
| | | 'Exova, Santa Fe Springs, United States | | 'Chair of Ferrous Metallurgy, Montanuniversitaet Leoben, Leoben, Austria |
| | | | | |



| Symposium | C8 | C9 | C10 | C11 |
|---------------|--|--|--|---|
| Room | Library Hall/M2 | Conference Room 3/M1 | F319/M1 | MOYSA Hall/M2 |
| Session Title | Solidification | Plastic deformation processes | SPD for specific applications (Bio-materials, H-storage, shape memory alloys) | Nanostructures |
| Chairperson | Hisao Esaka, Kader Zaidat | Prof. Alain Daidié | K. Edalati and N. Stepanov | Dimitis Tsoukalas |
| | UNDERSTANDING HOMOGENOUS NUCLEATION MECHANISMS IN SOLIDIFICATION OF METALS | CO-ROLLING OF TUNGSTEN WIRE AT AMBIENT TEMPERATURE | KEYNOTE/INVITED TUNING PROPERTIES OF Mg ALLOYS BY A COMBINATION OF SPD AND EXTRUSION FOR APPLICATIONS IN BIODEGRADABLE DEVICES | A METHOD FOR THE DETERMINATION OF THE DENSITY OF GAS STORED WITHIN BLISTERS |
| 15.00 | Dr. Mohsen Asle Zaeem¹, Mr. Avik Mahata¹, Dr. Michael Baskes² | Dr. Rudy Michel ¹ , Pr. Yves Bienvenu ¹ , Dr. Alain Thorel ¹ | | <u>Dr. Nikolay Cherkashin</u> '. Dr. Nabil Daghbouj ¹ . Dr. Alain Claverie ¹ |
| | 'Missouri University of Science and Technology, Rolla, United States, 'University of California-San Diego, La Jolla, United States | MINES ParisTech, PSL Research University, MAT - Centre des matériaux, CNRS UMR 7633, BP 87 91003 Evry, France | Prof Maurizio Vedani ¹ . Dr Ehsan Mostaed ¹ | [†] CEMES-CNRS, Taulouse, France |
| | MOVEMENT OF SOLID-LIQUID PHASES IN HORIZONTAL CENTRIFUGAL CASTING PROCESS | NUMERICAL SIMULATION OF THE OUT-OF-PLANE DISPLACEMENT DURING COLD-EXPANSION OF TITANIUM PLATE | | GEOMETRICAL DEFECTS IN LITHOGRAPHIC STRUCTURES OF NANOELECTRONIC DEVICES: METROLOGY AND CHARACTERIZATION |
| 15.20 | Dr. Hisao Esaka¹, Mr. Takahiro Yamada¹, Dr. Kei Shinozuka¹ | Post-doc Julien Cochet ¹ , Professor Alain Daidié ¹ , Engineer Clément Chirol ² | ¹ Politecnico Di Milano, Dept. Of Mechanical Engineering, Veduggio Con Colzano, Italy | Mr. George Papavieros ^{1,23} , Dr. Vassilis Constantoudis ^{1,3} , Dr. Evangelos Gogolides ^{1,3} |
| | 'National Defense Academy, Yokosuka, Japan | 'Université de Toulouse - Institut Clément Ader (ICA), Toulouse, France, ³ Airbus Operations S.A.S, Toulouse, France | | ¹ N.C.S.R. Demokritos , Athens / Aghia Paraskeui, Greece, ² Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Nanometrisis P.C., Athens/ Aghia Paraskeui, Greece |
| | IN-SITU INVESTIGATIONS OF PRIMARY PHASE NUCLE- ATION DURING RAPID SOLIDIFICATION USING XAS IN IRON AND IRON ALLOYS | CATEGORIZATION OF THE DEFECT, TINY IN NATURE ORIGINATING FROM THE HOT ROLLING MILL/COLD ROLLING MILL | HIGHLIGHT EFFECT OF COLD ROLLING ON THE HYDROGEN SORPTION PROPERTIES OF TITANIUM | LIGHT EMITTING PROPERTIES AND RECOMBINATION DYNAMICS OF Culns ³ /Zns core shell quantum dots |
| 15.40 | Mr. Samuel Clark', Miss. Kateryna Hechu', Mr. Adam Clark', Prof. Seetharaman Sridhar' | Mr Pankaj Choubey ⁱ | Jacques Huot ¹ . Thierry Grosdidier ² . Stéphanie Curcio ² . Nathalie Alain ² | Prof. Dr. Spiros Gardelis 13. Prof. Dr. M Fakis², Mr. N Droseros², Dr. D Georgiadou¹, Dr. A Travlos¹, Dr. A Nassiopoulou¹ |
| | 'University of Warwick, Coventry, United Kingdom, 'University College London, London, United Kingdom | [†] Tata Steel Ltd, Jamshedpur, India, ² JCAPCPL, Jamshedpur, India | 'Université du Québec à Trais-Rivières, Trais-rivieres, Canada, ZUniversité de Lorraine, Metz, France | NCSR Demokritos INN, Terma Patriarchou Grigoriou, Aghio Paraskevi, 15310, Athens, Greece, 'Department of Physics, University of Patras, 26500, Patras, Greece, 'Solid State Physics Section, Physics Department, National and Kapadistrian University of Athens, Pane- pistimioupolis, Zografas, 15784, Athens, Greece |
| | STATISTICAL ANALYSIS ON THE CET MECHANISM OF THE TIN-LEAD ALLOY SOLIDIFICATION | NUMERICAL SIMULATION OF JCO-E PIPE FORMING PROCESS AND ITS EFFECT ON THE EXTERNAL PRESSURE CAPACITY OF THE PIPE | | Zno Micro- and Nanostructures obtained by The Products of the Selective Ammonia- Cal Leaching Process of Spent Alkaline Batteries |
| 16.00 | Dr Lakhdar Hachani ² , <u>Pr Kader Zaidat</u> ¹ , Pr Yves Fautrelle ¹ | Ph.D. Student Giannoula Chatzopoulou¹. Ph.D. Student Konstantinos Antoniou¹. Professor Spyros Karamanos¹ | | <u>Dr Teresa Cebriano</u> ¹, Dra Irene García Díaz¹, PhD Ana López Fernández¹, PhD Laura Fernández Rodríguez¹, Dr Félix Antonio López¹, Prof. Dr Paloma Fernández² |
| | "Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000, Grenoble, France. ² Laboratoire de physique des matériaux, Université Amar Teildji de Laghouat, Laghouat, Algérie | 'University Of Thessaly. Volos, Greece | | ¹ CSIC-CENIM, Madrid, Spain, ² Universidad Complutense (UCM), Madrid, Spain |
| | MICROSTRUCTURE SELECTION IN In-Bi-Sn Ternary Eutectic System During Directional Solidification | CHARACTERIZATION AND ANALYSIS OF TINY DEFECT IN AUTOMOTIVE GRADE STEEL | | INVESTIGATION OF STRUCTURE FORMATION IN Li-ION BATTERY ANODE FILMS DURING DRYING |
| 16.20 | Ms. Samira Mohagheghi ¹ , Mrs. Melis Serefoglu ¹ | Mrs Dipti Saha!, <u>Mr Pankaj Choubey</u> ² | | Prof. Dr. Wilhelm Schabel ¹ , Dr. P. Scharfer ¹ , S. Jaiser ¹ , M. Baunach ¹ , J. Kumberg ¹ , R. Diehm ¹ |
| | 'Koc University, Istanbul, Turkey | ¹ Jamshedpur Continuous Annealing & Processing Company Pvt Ltd, Jamshedpur, India, ² Tata Steel Ltd, Jamshedpur, India | | ¹ Karlsruhe Institute of Technology - Thin Film Technology, Karlsruhe, Germany |
| | SOLIDIFICATION BEHAVIOUR OF MoTanbyTi HIGH ENTROPY ALLOYS WITH DIFFERENT MO CONTENT | OPTIMIZATION OF INJECTION STRETCH BLOW MOLDING (ISBM) PROCESS FOR THE PRODUCTION OF LIGHTWEIGHT AND WITH GOOD MECHANICAL PROPERTIES PET CONTAINERS | | |
| 16.40 | Dipl. Eng. Anthoula Poulia ¹ , Dipl. Eng. Emmanuel Georgatis ¹ , Dr. Alexander Karantzalis ¹ | Assistant Professor Antonios Lontos¹. PhD student Andreas Gregoirou² | | |
| | 'University Of loannina, loannina, Greece | ¹ Frederick University Cyprus, Nicosia, Cyprus, ² Frederick University Cyprus, Nicosia, Cyprus | | |
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| EUROM | | | FINAL PROGRAM/ FRIDAY /PM |
|--------------------|---|--|---|
| Symposium | D1 | D5 | D6 |
| Room Session Title | Artist Cafe/M1 | I-15/M1 Methods and Special Applications | Maurice Saltiel Hall II/M2 Multi-Length-Scale Innovations in Damage Evolution |
| Chairperson | Federico Zontone and Evangelia Moshopoulou | Fathollah Varnik | in Materials: Characterization, Modeling, and Validation Saryu Fensin |
| Ondii person | PULSE PICKER FOR X-RAY RADIATION DRIVEN BY SURFACE ACOUSTIC WAVE | PHASE-FIELD SIMULATION OF THE MICROSTRUCTURE EVOLUTION OF AUSTENITE DURING MULTIPASS HOT ROLLING OF HSLA STEELS | COMPUTATIONAL MODELLING OF AQUEOUS CORROSION: REACTIVE TRANSPORT MODELLING OF STABILITY OF CORROSION PRODUCTS |
| 15.00 | Mr. Simone Vadilonga¹, Dr Ivo Zizak¹, Mr. Andrei Petsiuk¹, Dr. Dmitry Roshchupkin², Dr. Kawal Sawhney², Dr. Igor Dolbnya³, Prof. Dr. Alexei Erko¹ | Mrs Maria-loanna Tzini¹. Professor Greg Haidemenopoulos¹ | PhD Maalek Mohamed-Said ¹ , Professor Bruno Vuillemin ¹ , Dr Roland Oltra ¹ , Laurent Trenty ² , Didier Crusset ² |
| | Helmholtz Zentrum Berlin, Berlin, Germany, *Institute of Microelec- tronics Technology and High Purity Materials, Chernogolvka, Russia, *Diamond Light Source, Didcot, United Kingdom | 'University Of Thessaly, Volos, Greece | ¹ CNRS - Univ. Bourgogne France Comté. Dijon, France, ² ANDRA, Direction de la Recherche et Dévelappement, Châtenay-Malabry, France. |
| | COMBINING A NINE-CRYSTAL MULTIANALYZER STAGE WITH A PILATUS3 X CDTE DETECTOR FOR HIGH RESOLUTION X-RAY POWDER DIFFRACTION AT ESRF-ID22 | COMPUTATIONALLY EFFICIENT PHASE-FIELD STUDIES BY SIMULATION SAMPLING AND STATISTICAL ANALYSIS | MODELLING CRACK NUCLEATION AND GROWTH UNDER ROLLING CONTACT FATIGUE |
| 15.20 | Dr. Catherine Dejoie¹, Dr. Mauro Coduri¹, Dr. Carlotta Giacobbe¹, Olivier Grimaldi¹, Sebastien Petitdemange¹, Dr. Dubravka Sisak-Jung², Dr. Andrew Fitch¹ | Mr. Christian Schwarze ¹ , Dr. Reza Darvishi Kamachali ¹ , Mr. Markus Kühbach ² , Mr. Luis Barrales Mora ² , Mr. Christian Mießen ² , Mr. Marvin Tegeler ¹ , Prof. Ingo Steinbach ¹ , Prof. Günter Gottstein ² | Dr. Isaac Toda-caraballo ¹² , Dr. Jakub Jelita Rydel ¹ , Dr. Gael Guetard ^{1,3} , Dr. Pedro Rivera-Diaz-del-Castillo ¹ |
| | ¹ ESRF - The European Synchrotron, Grenoble, France, ² Dectris, Baden, Switzerland | Interdisciplinary Centre for Advanced Materials Simulation, Ruhr-uni- versity Bochum, Bochum, Germany, Institute of Physical Metallurgy and Metal Physics, RWTH Aachen University, Aachen, Germany | 'The University Of Cambridge, Cambridge, UK, 'Materalia Research Group, Department of Physical Metallurgy, Centro Nacional de Investi- gaciones Metalúrgicas (CENIM-CSIC), Madrid, Spain, 'Erasteel, Paris, France |
| | SUB-50NM CROSS-SECTIONAL X-RAY NANODIFFRACTION ANALYSIS OF MICROSTRUCTURE AND STRAIN IN THIN FILMS | DESIGN AND ELECTROCHEMICAL MODELING OF FENICOCU HIGH ENTROPY ALLOY PARTICLES AS NEW ELECTRODE CATALYST MATERIAL FOR FUEL CELL APPLICATION | ATOMISTIC SIMULATION OF MECHANICAL BEHAVIOR OF INTERFACES IN ULTRA HIGH TEMPERATURE CERAMIC MATRIX COMPOSITES |
| 15.40 | AssocProf. Dr. Jozef Keckes¹ | Res. Assist. Serzat Safaltin ¹ , Res. Assist. Burak Kücükelyas ¹² , Prof. Dr. Sebahattin Gurmen ¹ | <u>Dr Yanhui Zhang</u> ¹, Prof Stefano Sanvito¹ |
| | 'Montanuniversität Leoben, Leoben, Austria | 'Istanbul Technical University, Department of Metallurgical and Materials Engineering, Istanbul/Sariyer, Turkey, 'Bursa Technical University, Department of Metallurgical and Materials Engineering, Bursa/Osman- gazi, Turkey | [†] Trinity College Dublin, Dublin, Ireland |
| | MATERIAL CHARACTERIZATION ON VESPERS BEAMLINE AT CLS | DEVELOPMENT OF A VIRTUAL DIRECT-CHILL CASTING SIMULATOR FOR DESIGNING AA7050 HARD ALLOY CASTING PRACTICE | DUCTILITY PREDICTION FOR MAGNESIUM CASTING USING HIERARCHICAL MICROSTRUCTURE-BASED FINITE ELEMENT METHOD |
| 16.00 | Dr Renfei Feng [†] | Professor Junsheng Wang'. Dr. Peipei Yang' | Dr. Xin Sun¹ |
| | 'Canadian Light Source, Saskatoon, Canada | 'Beijing Institute Of Technology. Beijing. China | 'Pacific Northwest National Laboratory, Richland, USA |
| | MOBILE PULSED LASER DEPOSITION EQUIPMENT FOR IN SITU INVESTIGATION AT SYNCHROTRON RADIATION FACILITIES | NONLINEAR ELASTIC EFFECTS IN PHASE FIELD CRYSTAL AND AMPLITUDE EQUATIONS: COMPARISON TO AB INITIO SIMULATIONS OF BCC METALS | A STUDY OF THE MULTI-AXIAL FATIGUE DAMAGE MECHANISMS FOR A GLASS FIBRE REINFORCED THERMOPLASTICS (PA66) |
| 16.20 | Dr. Ksenia Maksimova ¹² , Dr. Dmitri Novikov ² , Dr. Alexander Goikhman ¹ | Claas Hüter ^{1,2} , Martin Friak ^{3,4} , Nigel Goldenfeld ⁵ , Marc Weikamp ¹ , Jörg Neugebauer ² , Robert Spatschek ¹ | Fang Lu ¹²³ , Sabine Cantournet ¹ , Noëlle Billon ² , Jean-Luc Bouvard ² , Marc Bernacki ² , Victor Fabre ³ |
| | ¹ Immanuel Kant Baltic Federal University, Kaliningrad, Russian Federa- tion, ² Deutsches Elektronen-Synchrotron , Hamburg, Germany | 'Forschungszentrum Jülich, Jülich, Germany, 'Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany, 'Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic, 'Central European Institute of Technology, CEITEC MU, Masaryk University, Brno, Czech Republic, 'Egeartment of Physics, Loomis Laboratory of Physics, University of Illinois at Urbana-Champaign, Urbana, USA | ¹ Mines Paristech, PSL Research University, Centre des matériaux, Evry, France, ² Mines Paristech, PSL Research University, Centre de Mise en Forme des matériaux, Sophia Antipolis, France, ³ Hutchinson SA, Research and Innovation Centre, Chalette-sur-Loing, France |
| 16.40 | | HIERARCHICAL BUCKLING INSTABILITIES AS A ROUTE TOWARDS SURFACE PATTERNING | EXAMINING STRUCTURE-PROPERTY RELATIONSHIPS IN ATHLETIC COMPOSITES USING CORRELATIVE MICROSCOPY |
| | | Dr. Gabriella Tarantino ¹ , Dr. Kostas Danas ¹ | Jeff Gelb¹, Dr. Leah Lavery¹, Luke Hunter¹, Dr. Lars-Oliver Kautschor², Dr. Arno Merkle¹ |
| | | [†] Ecole Polytechnique, Palaiseau, France | ¹ Carl Zeiss Microscopy, Pleasanton, United States, ² Carl Zeiss Microscopy, Oberkochen, Germany |

| EUKUM | | | FINAL PROGRAM/FRIDAY/PMT |
|---------------|--|--|--|
| Symposium | D10 | E6 | F6 |
| Room | CR II Hall/M2 | Maurice Saltiel Hall II/M2 | Conference Room 2/M1 |
| Session Title | Advanced Materials | Metals and Additive Manufacturing of Metals | Functional properties of bio-inspired materials |
| Chairperson | Ghysels-Zólyomi | Von Hehl | Kerstin Koch |
| | HIGHLIGHT IONIC DIFFUSION FROM NON-EQUILIBRIUM AB INITIO MOLECULAR DYNAMICS: THE METHOD AND ITS APPLICATION TO DOPED CERIA | DEFORMATION BEHAVIOR OF Ti-6AL-4V ALLOY UNDER EQUI-BIAXIAL TENSION | HIGHLIGHT BIOINSPIRED SELF-HEALING COMPOSITES WITH STRUCTURAL CAPABILITIES |
| 15.00 | <u>Mr Johan Klarbring</u> ¹ , Dr Olga Vekilova ^{2,3} , Dr Johan Nilsson ² , Professor Natalia V. Skorodumova ^{2,3} , Professor Sergei I. Simak ¹ | <u>Srinivasan Nedunchezhian</u> !, Prof. R Velmurugan ¹ , Dr. Ravi Kumar ² , Mr. Satish Kumar Singh ² , Bhanu Pant ² | <u>Dr Eleonora D'Elia</u> ¹ , Miss May Hsim Lay ¹ , Dr Claudio Ferraro ¹ , Mr Ezra Feilden ¹ , Prof Eduardo Saiz ¹ |
| | ¹ Department of Physics. Chemistry and Biology (IFM), Linköping University, Linköping, Sweden. ¹ Materials Science and Engineering, KTH - Royal Institute of Technology, Stockholm, Sweden. ³ Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden | 'Indian Institute of Technology Madras, Chennai, India, ² Vikram Sarabhai Space Centre, Trivandrum, India | 'Imperial College London, London, United Kingdom |
| | MODELING DIFFUSION OF ADSORBATES IN NANOPOROUS MATERIALS | LOW TEMPERATURE SUPERPLASTICITY OF NEAR 8 TITANIUM ALLOY WITH ULTRAFINE GRAINED STRUCTURE | SELF-ASSEMBLED PEPTIDES AND PROTEINS AS SCAFFOLDS FOR CELL ATTACHMENT AND PROLIFERATION |
| 15.20 | Prof. An Ghysels¹ | <u>Evgeny Naydenkin</u> ¹ , Il'ya Ratochka ¹ , Ivan Mishin ¹ , Olga Lykova ¹ | Prof. Anna Mitraki¹², Mr. Graziano Deidda¹², Ms. Ariadne Prigipaki¹², Mr. Sai Vamshi Jonnalagadda³, Mr. Jacob Spies³, Dr. Anthi Ranella¹², Dr. Alexandros Selimis¹², Prof. Phanourios Tamamis³ |
| | ¹ Center For Molecular Modeling, Ghent University, Gent, Belgium | 'Institute of Strength Physics & Materials Science SB RAS, Tomsk, Russian Federation | University of Crete, Heraklion, Greece, ² IESL/FORTH, Heraklion, Greece, ³ Texas A&M University, College Station, U.S.A. |
| | MODELING THE LONG-TERM BEHAVIOR OF VACANCY COMPLEXES IN GRAPHENE | DEVELOPMENT OF NEW PARTICULATE REINFORCED LIGHT METALS AND CAST PROCESSES FOR THE PRODUCTION OF COST EFFECTIVE STRUCTURAL COMPONENTS | NEWLY DEVELOPED UV-CURABLE OPTICAL ADHESIVES BASED ON VEGETABLE OIL EPOXIES |
| 15.40 | Enrique Martinez Saez ¹ , Christian Negre ¹ , Danny Perez ¹ , Marc Cawkwell ¹ , Arthur Voter ¹ , Anders Niklasson ¹ | Dr. Pedro Egizabal ¹ , Dr. Maider García de Cortázar ¹ , Dr. Iban Vicario ¹ , <u>Mr. Mikel Merchán</u> ¹ | Prof. Seiko Mitachi¹, Mr. Shunichiro Akimoto¹, Mr. Norio Murata¹, Dr. Alice Mija² |
| | 'Los Alamos National Laboratory, Los Alamos, United States | [†] Tecnalia Research & Innovation, Donastia- San Sebastian, Spain | 'Tokyo Universty Of Technology, 1404-1 Katakura, Hachioji, Tokyo, Japan, 'Universite Nice Sophia Antipolis, CNRS, ICN-UMR 7272, Parc Valrose, France |
| | MICROSCOPIC PHASE-FIELD MODELING OF HCP FCC INTERFACES | MANUFACTURING OF MICROPOROUS AND HYBRID MICROPOROUS/ DENSE WALLS BY ELECTRON BEAM MELTING FOR SURFACE COOLING OF COMBUSTION CHAMBERS. EFFICIENCY ASSESSMENT THROUGH AEROTHERMAL BENCH TESTING | BIOMIMETIC STRUCTURES VIA SELF-ORGANIZATION IN MULTIPLE-SCAN, FEMTOSECOND-LASER IRRADIATED SURFACES |
| 16.00 | Marc-Antoine Louchez ¹ , <u>Dr Ludovic Thuinet</u> ¹ , Dr Rémy Besson ¹ , Professor Alexandre Legris ¹ | Oceane Lambert ¹ , Cecile Davoine ¹ , Remy Dendievel ² , Philippe Reulet ³ , Olivier Leon ³ | Dr. Camilo Florian¹, Dr. Daniel Puerto¹, Mr. Yasser Fuentes-Edfuf¹, Mr. Evangelos Skoulas², Dr. Emmanuel Stratakis², Prof. Javier Solis¹, Dr. Jan Siegel¹ |
| | 'Université de Lille, Lille, France | 'Onera - The French Aerospace Lab. Chatillon, France, 'Grenoble University & CNRS, SIMaP/GFM2, Saint-Martin-d'Hères, France, 'Onera - The French Aerospace Lab, Toulouse, France | 'Laser Processing Group, Instituto de Óptica-CSIC, Madrid, Spain, ² Insti- tute of Electronic Structure and Laser (IESL-FORTH), Vassilika Vouton, Heraklion, Greece |
| | ANOMALOUS OPTICAL RESPONSE IN ATOMICALLY THIN INSE | SURFACE POST-TREATMENT OF ADDITIVE MANUFACTURED STRUCTURAL PARTS FOR AREROSPACE APPLICATION | PROCESSING OF BIO-INSPIRED NANOCOMPOSITES BY COLLOIDAL SELF-ASSEMBLY OF CHITIN NANOPARTICLES AND INORGANIC SPECIES |
| 16.20 | Dr Viktor Zólyomi¹ | Dring. Hubertus Lohner ¹ , DrIng. Tobias Mertens ¹ | Dr Bruno Alonso ¹ , Dr Laura Cardoso ¹ , Dr Krassimir Kostov ² , Dr Alexander Sachse ¹ , Pr Emmanuel Belamie ^{1,3} |
| | ¹ University Of Manchester, United Kingdom | ¹Airbus, Bremen, Germany | 'ICGM - MACS, Montpellier, France, 'Institute of General and Inorganic Chem- istry - Bulgarian Academy of Sciences, Sofia, Bulgaria, 'EPHE - PSL Research University, Paris, France |
| | | MATERIAL BEHAVIOR AND PROPERTIES OF THE SHAPED SHEET PARTS OF TITANIUM ALLOYS DURING HOT CREEP FORMING | HIERARCHICAL VASCULAR NETWORKS FOR ADDITIVE MANUFACTURING |
| 16.40 | | Tarik Nawaya ¹ , Dr. Axel Von Hehl ² . Prof. Hans-Werner Zoch ³ | Dulce M. Aguilar-Garza ¹ . Alex W. Justin ¹ , Dr Athina E. Markaki ¹ |
| | | ¹IWT-Bremen, Bremen, Germany, ²IWT-Bremen, Bremen, Germany, ³IWT-Bremen, Bremen, Germany | 'University of Cambridge, Cambridge, United Kingdom |
| | | | |





| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|---------------|--|
| P1 | Tuesday, September 19, 2017 |
| | Symposium A.3: Functional Polymers and Related (Nano)Composites |
| A3-P-TUE-P1-1 | EFFECT OF UV AGING ON THE MECHANICAL, THERMAL AND MORPHOLOGICAL PROPERTIES OF POLYPROPYLENE (PP) /GLASS SPHERES/MA-g-PP POLYMER COMPOSITES |
| | Prof.dr. Munir Tasdemir ¹ , Aslihan Aydin ¹ 'Marmara University, Istanbul, Turkey |
| A3-P-TUE-P1-2 | PDMAEMA-b-PLMA-b-POEGMA TRIBLOCK TERPOLYMERS: SYNTHESIS, QUATERNIZATION AND COMPLEXATION WITH DNA |
| | MSc. Athanasios Skandalis ¹ , Dr. Stergios Pispas ¹ 'National Hellenic Research Foundation, Athens, Greece |
| | NEW APPLICATION OF ALICYCLIC POLYIMIDE FILMS IN ELECTRONICS |
| A3-P-TUE-P1-3 | Prof. Natalia Korobova ¹ , Prof. Valentina Kravtsova ² , Prof. Sergey Timoshenkov ¹ , Prof. Mayra Umersakova ² 'National Reseaech University of Electronic Technology MIET, Zelenograd, Moscow, Russian Federation, |
| | ² A.B. Bekturov Institute of Chemical Science, Almaty, Kazakhstan |
| | INVESTIGATION OF NOVEL POLY(ETHYLENE FURANOATE)-CO-POLY(ETHYLENE ADIPATE) RANDOM COPOLYESTERS |
| A3-P-TUE-P1-4 | Mrs Maria Nerantzaki¹, Mr Lazaros Papadopoulos¹, Mr Andreas Magaziotis¹, Mr Dimitrios Bikiaris¹ ¹Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece |
| | MELT FUNCTIONALISATION OF POLYPROPYLENE AS AN INNOVATIVE UP-CYCLING PROCESS |
| A3-P-TUE-P1-5 | Prof. Vasiliki-Maria Archodoulaki ¹ , Florian Kamleitner ¹ , Dr. Bernadette Duscher ¹ , Dr. Thomas Koch ¹ , Prof. Simone Knaus ¹ 1TU Wien, Vienna, Austria |
| | THE THERMAL AND ELECTRICAL PROPERTIES OF A POLYMER NANOCOMPOSITE |
| | INCORPORATING AN ORGANICALLY-MODIFIED MMT CLAY |
| A3-P-TUE-P1-6 | Mrs Allison Shaw ¹ , Dr. Suvi Virtanen ¹ , Prof. Alun Vaughan ¹ , Dr. Thomas Andritsch ¹ 'University Of Southampton, Southampton, United Kingdom |
| | |
| | POLYETHYLENE MMM CONTAINING ZEOLITES FOR GAS SEPARATION TECHNOLOGIES Ms. Maria Helena da Silva Reis¹, Dr. Nara Regina S. Basso¹, |
| A3-P-TUE-P1-7 | Dr. Marçal J. Rodrigues Pires ¹ , Dr. Denis Rodrigue ² |
| | ¹Pontifícia Universidade Católica Do Rio Grande Do Sul, Porto Alegre, Brasil, ²Université Laval, Quebec, Canada |
| | EFFECT OF MOISTURE AND FILLER CONTENT ON THE DIELECTRIC RESPONSE OF PA6/BOEHMITE ALUMINA NANOCOMPOSITES |
| A3-P-TUE-P1-8 | Georgia Tomara ¹ , Dr. Panagiota Karahaliou ¹ , Prof. Georgios C. Psarras ² , Prof. Stavroula Georga ¹ , Prof. Christofors Krontiras ¹ , Laszlo Lendvai ³ , Prof. Dr. h.c. Jozsef Karger-Kocsis ^{3,4} |
| | ¹ Department of Physics, University of Patras, 26504, PATRAS, Greece, ² Department of Materials Science, University of Patras, 26504, PATRAS, Greece, ³ Department of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics, Müegyetem rkp. 3, H-1111, Budapest, Hungary, ⁴ MTA-BME Research Group for Composite Science and Technology, Müegyetem rkp. 3, H-1111, Budapest, Hungary |
| A3-P-TUE-P1-9 | SYNTHESIS, CHARACTERIZATION AND THERMAL ANALYSIS OF HIGH DENSITY POLYETHYLENE/GRAPHENE NANOCOMPOSITES |
| | Evangelia Tarani¹, Zoe Terzopoulou², Andreas Wurm³, Christoph Schick³, Dimitrios N. Bikiaris², Konstantinos Chrissafis¹, George Vourlias¹ |
| | ¹ Physics Department, Aristotle University of Thessaloniki, GR 54124, Greece, ² Department of Chemistry, Laboratory of Polymer Chemistry and Technology, Aristotle University of Thessaloniki, GR 54124, Greece, ³ University of Rostock, Institute of Physics, Albert Einstein Str. 23-24, 18059 Rostock, Germany |

TIME: 13:00-15:00 ROOM: FOYER, E1/M1 Tuesday, September 19, 2017 Ρ1 Symposium A.3: Functional Polymers and Related (Nano)Composites THE EFFECT OF BLOCK COPOLYMER ON DISPERSION AND FRACTURE TOUGHNESS OF CARBON NANOTUBES EPOXY NANOCOMPOSITES A3-P-TUE-P1-10 Mrs. Marcia Schuster¹, Mr. Luiz Coelho² ¹Center of Technological Science, Santa Catarina State University, Joinville, Brasil, ²Center of Technological Science, Santa Catarina State University, Joinville, Brasil DEVELOPMENT OF SILICA-BASED FILLERS AND NANOCOMPOSITES FOR POWDER COATINGS APPLICATIONS <u>Dr. Apostolos Enotiadis</u>¹, PhD student Lamprini Boutsika¹, PhD student Christos Tampaxis¹, MSc Kalliopi Krassa², Dr. Charalambos Varelas², MSc Elisa Maisano³, Dr. Theodore Steriotis¹, Δ3_P_THF_P1_11 Dr. Georgia Charalambopoulou¹ ¹National Center For Scientific Research "DEMOKRITOS", Athens, Greece, ²Megara Resins S.A., Megara, Greece, ³SBS Steel Belt Systems S.r.l. - Powder Coating Division, Villafranca Tirrena, ITALY EFFECT OF ELECTRON IRRADIATION ON THE PROPERTIES OF COMPOSITE AND SILVER METALIZED POLYIMIDE FILMS <u>Professor Natalia Korobova</u>¹, Ph.D Abyl Muradov², Ph.D. student Assem Kyrykbayeva², Professor Gulmira Yar-Mukhamedova², Professor Kanat Mukashev² Δ3-P-TUF-P1-12 ¹National Reseaech University of Electronic Technology MIET, Zelenograd, Moscow, ²Al-Farabi Kazakh National University, Almaty, Kazakhstan INVESTIGATION AND COMPARISON OF HOT STAMPING PROCESS PARAMETERS IN UP&DOWN MACHINING ON ABS MATERIALS UNDER EFFECTS OF DIFFERENT WEATHER CONDITIONS A3-P-TUE-P1-13 Prof.dr. Munir Tasdemir¹, M. Alper Agca ¹Marmara University, Istanbul, Turkey POLYPROPYLENE/WASTE UREA FORMALDEHYDE POLYMER BLENDS: EFFECTS OF POWDER CONTENT ON FRICTION, WEAR AND MORPHOLOGICAL BEHAVIORS A3-P-TUE-P1-14 Prof.dr. Munir Tasdemir¹, Ridvan Karakus ¹Marmara University, Istanbul, Turkey SELF-POLYMERISABLE PLA-BASED COMPOSITES A3-P-TUE-P1-15 <u>Dr Sofia Karamanou</u>1, Dr George Vekinis1 ¹Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis, Greece PLA-BASED BIODEGRADABLE HYBRID COMPOSITES WITH CERAMIC AND NATURAL FIBRE REINFORCEMENTS A3-P-TUE-P1-16 **<u>Dr Panayiotis Georgiopoulos</u>**¹, Dr George Vekinis¹ ¹Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis, Greece AGING IN WATER AND IN AN ALKALINE MEDIUM OF (EPOXY/ PHENOLIC) BLEND REINFORCED WITH CARBON FIBRE AND 0-MWCNTs NANOCOMPOSITES: EXPERIMENTAL STUDY AND MODELLING PhD. Juan Pablo Morales Arias¹, PhD. Eliana Agaliotis¹, PhD. Mariano Martin Escobar², PhD. Analia Vazquez¹ A3-P-TUE-P1-17 ¹Instituto de tecnologia en polimeros y nanotecnologia (ITPN), (UBA-CONICET), Buenos Aires, Argentina,

STUDY OF THE DIELECTRIC RELAXATION SPECTRUM OF POLYOXYMETHYLENE/POLYURETHANE/LAYERED SILICATES (POM/PU/LS) NANOCOMPOSITES Georgia Tomara¹, Dr Panagiota Karahaliou¹, Prof Georgios C. Psarras², Prof Stavroula Georga¹, Prof Christofors Krontiras¹, Prof. Dr.-Ing. habil. Suchart Siengchin³, Prof. Dr. h.c. Jozsef Karger-Kocsis⁴,5 ¹Department of Physics, University of Patras, 26504, PATRAS, Greece, ²Department of Materials Science, University of Patras, 26504, PATRAS, Greece, ³King Mongkut's University of Technology North Bangkok, Krung Thep, Bangkok, Thailand, ⁴Department of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics, Műegyetem rkp. 3, H-1111, Budapest, Hungary, ⁵MTA-BME Research Group for Composite Science and Technology, Műegyetem rkp. 3, H-1111, Budapest, Hungary

²Instituto Nacional de Tecnología Industrial (INTI), Buenos Aires, Argentina

A3-P-TUE-P1-18

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| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|----------------|---|
| Pl Pl | Tuesday, September 19, 2017 |
| •• | Symposium A.3: Functional Polymers and Related (Nano)Composites |
| | THE EFFECT OF CLAY INCORPORATION ON THE SURFACE CHARGE TRANSPORT OF CORONA-CHARGED EPOXY/CNTs NANOCOMPOSITES |
| A3-P-TUE-P1-19 | Mr Adam Stimoniaris ¹ , Mr Constandinos Delides ¹ |
| | ¹ Department of Environmental Engineering, Western Macedonia University of Applied Sciences, Kozani, Greece |
| | EXPERIMENTAL VERIFICATION OF FRACTIONAL MODELLING OF THE VISCOELASTIC RESPONSE IN POLYMER BIOMATERIALS |
| A3-P-TUE-P1-20 | <u>Dr. Anastasios Lazopoulos</u> ¹, Dr. Dionysios Mouzakis¹ |
| | ¹Evelpidon Hellenic Army Academy, Kallitehnoupolis, Greece |
| | EFFECT OF WATER CONTENT ON THE MECHANICAL PROPERTIES OF POLYAMIDE-6 |
| A3-P-TUE-P1-21 | Eszter Kókai ¹ ¹ Pallasz Athéné University, Kecskemét, Hungary |
| | EPOXY RESIN/TIC NANOCOMPOSITES: MECHANICAL AND ELECTRICAL CHARACTERISATION |
| A3-P-TUE-P1-22 | Georgia Tomara ¹ , Konstantia Papalexopoulou ¹ , Vasiliki Alexiou ¹ , Glykeria A. Visvini ¹ , |
| | Constantinos Fiotakis ² , Theodoros G. Velmachos ² , Sotiris . G. Stavropoulos ² ¹Department of Physics, University of Patras, 26504, PATRAS, Greece, ²Department of Materials Science, University of Patras, 26504, PATRAS, Greece |
| | POLYMERIC MICROSPHERES CONTAINING MESOPOROUS CELLULAR FOAM FOR LONG ACTING INJECTABLE RELEASE FORMULATIONS OF PALIPERIDONE ANTIPSYCHOTIC DRUG |
| A3-P-TUE-P1-23 | Dr. Stavroula Nanaki¹, Professor Dimitris Bikiaris¹, Theodoros Tsiaprantas Valmas², Assoc. Professor Eleni Pavlidou ³ |
| | ¹ Lab. of Polymer Chemistry & Technology, Chemistry Dept, Aristotel University Of Thessaloniki, Thessaloniki, Greece, ² Physical Education & Sports Science Faculty, Dimocritus University of Thrace, Komotini, Greece, ³ Lab. of Scanning Electron Microscopy, Aristotel University of Thessaloniki, Thessaloniki, Greece |
| | THERMAL CHARACTERIZATION OF POLYURETHANE UREA NANOCOMPOSITES |
| A3-P-TUE-P1-24 | Eng Alneira Cuellar Burgos ¹ , Eng Fabio Augusto Mesa Rueda ¹ |
| | ¹Laboratorio de Polimeros y Materiales Compuestos, Universidad Nacional De Colombia, Manizales, Colombia |
| | BIOMASS DERIVED FEEDSTOCK FOR POROUS CARBONACEOUS FRAMEWORKS |
| A3-P-TUE-P1-25 | <u>Pierluigi Tosi</u> ^{1,2} , Prof. Dr. Alice Mija ¹ , Prof. Dr. Luc Vincent ¹ , Dr. Ed de Jong ² 'University Of Nice, Nice, France, 2Avantium, Amsterdam, The Netherlands |
| | FROM SENSING TO DOSIMETRY: IMMOBILIZED SINGLE-STRANDED DNA ON SURFACES AS VERSATILE SENSOR FOR PROTEIN ACTIVITY AND IRRADIATION |
| A3-P-TUE-P1-26 | Marc Benjamin Hahn¹¹Bundesanstalt für Materialforschung, Berlin, Germany |
| A3-P-TUE-P1-27 | PLATFORM MOLECULES FOR EPOXY SYNTHESIS |
| | Angela Marotta ^{1,2} , Veronica Ambrogi ¹ , Alice Mija ² ¹ Università degli Studi di Napoli Federico II, Naples, Italy, ² Université Nice Sophia Antipolis, Nice, France |
| | THIOPHENE BASED THREE-DIMENSIONAL POROUS ORGANIC POLYMER FOR THE DETECTION OF PEROXIDE EXPLOSIVES |
| A3-P-TUE-P1-28 | Mr. Shuai Li ¹ , Dr. Pengfei Li ^{1,2} , Dr. Bo Wang ¹ |
| | ¹ Beijing Institute Of Technology, School of Chemistry and Chemical Engineering, Beijing, China, ² Beijing Institute Of Technology, Advanced Research Institute for Multidisciplinary Science, Beijing, China |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| DI | Tuesday, September 19, 2017 |
| P1 - | Symposium A.5: Colloidal Nanoparticles: Synthesis, functionalization and applications |
| | CATIONIC SUBSTITUTION IN COLLOIDAL CSPbX NANOCRYSTALS |
| A5-P-TUE-P1-1 | Mr Peter Shaw ¹ , Dr Michaela Meyns ² , Professor Martin Charlton ¹ , Professor Pavlos Lagoudakis ¹ , Dr Andreu Cabot ^{2,3} , Dr Antonios Kanaras ¹ |
| | ¹ University Of Southampton, Southampton, United Kingdom, ² Catalonia Institute for Energy Research (IREC), Barcelona, Spain, ³ ICREA, Pg. Lluis Companys 23, Barcelona, Spain |
| | THE POSSIBILITY OF OBTAINING CORE/SHELL STRUCTURE IN SYSTEM NiFe204/ZnFe204 |
| A5-P-TUE-P1-2 | Phd Marija Milanovic ¹ , Phd Ivan Stijepovic ¹ , Phd Vladimir Srdic ¹ |
| | ¹ University Of Novi Sad, Faculty Of Technology, Department Of Materials Engineering, Novi Sad, Serbia |
| | CONTROL OF NANOPARTICLE CHARGING MECHANISM IN NONPOLAR SOLVENTS TO DEPOSIT METAL NANOPARTICLE MONOLAYERS BY ELECTROPHORESIS |
| A5-P-TUE-P1-3 | Ondřej Černohorský¹, <u>Jan Grym</u> ¹, Roman Yatskiv¹, Viet Hung Pham², James H Dickerson² |
| | ¹ Institute of Photonics and Electronics of the CAS, Prague, Czech Republic, ² Center for Functional Nanomaterials, Brookhaven National Laboratory, USA |
| | SYNTHESIS AND FEATURES OF COBALT-BASED MAGNETIC NANOPARTICLES FOCUSING ON BIOMEDICAL APPLICATIONS |
| A5-P-TUE-P1-4 | MSc Anastasios Kotoulas ¹ , Dr. Catherine Dendrinou-Samara ² , Dr. Mavroeidis Angelakeris ¹ Dr. Orestis Kalogirou ¹ , T. Kehagias ¹ , G. Vourlias ¹ , J. Arvanitidis ¹ , C. Sarafidis ¹ |
| | DI. Ofestis Ratogifou , 1. Reflagias , 0. Volitias , 3. Arvallituis , 0. Salatius Department of Physics, Aristotle University of Thessaloniki, 54124, Greece, Thessaloniki, Greece, Department of Chemistry, Aristotle University of Thessaloniki, 54124, Greece, Thessaloniki, Greece |
| | CYANOVINYL CARBAZOLE AS A REVERSIBLE CROSS-LINKER FOR DNA-Aunp assemblies |
| A5-P-TUE-P1-5 | Dr. Pascal Harimech ¹ , Dr. Afaf El-Sagheer ² , Prof. Tom Brown ² , <u>Assoc. Prof. Antonios Kanaras</u> ¹ 1 Physics and Astronomy, University of Southampton, Southampton, UK, 2 Department of Chemistry, University of Oxford, Oxford, UK |
| | SYNTHESIS OF METALLIC NANOPARTICLES BY ELECTRICAL DISCHARGE IN THE LIQUID MEDIUM |
| A5-P-TUE-P1-6 | Ing. Jakub Horak ¹ , Anton Nikiforov ² , Christophe Leys ² , Ke Vin Chan ² , Frantisek Krcma ¹ |
| | ¹ Brno University Of Technology, Faculty of Chemistry, Institute of Physical and Applied Chemistry, Purkynova 464/118, 612 00, Brno, Czech Republic, ² Ghent University, Faculty of Engineering and Architecture, Department of Applied Physics, Sint-Pietersnieuwstraat 41, Gent 9000, Gent, Belgium |
| | TARGETED DETECTION OF MRNA BIOMARKERS USING GRAPHENE OXIDE AND UPCONVERSION NANOPARTICLES |
| A5-P-TUE-P1-7 | Mr Patrick Vilela ¹ , Dr Afaf El-Sagheer ³ , Prof. Tom Brown ³ , Dr Timothy Millar ² , Prof. Otto Muskens ¹ , <u>Assoc. Prof. Antonios Kanaras</u> ¹ |
| | ¹Institute for Life Sciences, Physics and Astronomy, University of Southampton, Southampton, UK, ²Faculty of Medicine, University of SOuthampton, Southampton, UK, 3Department of Chemistry, University of Oxford, Southampton, UK |
| | NANO JANUS HETERODIMERS VIA LASER-INDUCED PHOTOCHEMICAL DEPOSITION IN A LAB ON A CHIP CONFIGURATION |
| A5-P-TUE-P1-8 | Qingguo BAI ^{1,2} , Dr. Ivan Shupik ^{1,2} , Dr. Jean Pierre Delville ² , Dr. Marie Helene Delville ¹ |
| | ¹ICMCB, CNRS UPR 9048, Universite of Bordeaux, Pessac, France, ²LOMA, UMR 5798, Université de Bordeaux/CNRS, Talence, France |
| A5-P-TUE-P1-9 | PEGYLATED CuFe NPs AS ANTIMICROBIAL AGENTS |
| | MSc Orestis Antonoglou ¹ , PhD Kleoniki Giannousi ¹ , Assoc. Prof. Anastasia Pantazaki ² , Assoc. Prof. Ioannis Arvanitidis ³ , PhD Stefanos Mourdikoudis ⁴ , Prof. Catherine Dendrinou-Samara ¹ |
| | ¹ Lab of Inorganic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Lab of Biochemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Thessaloniki, Greece, ⁴ Department of Physics and Astronomy, University College London, London, U.K. |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
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| Tuesday, September 19, 2017 | | |
| Symposium A.5: Colloidal Nanoparticles: Synthesis, functionalization and applications | | |
| | COATED Cu-BASED NANOPARTICLES AS PLANT ANTIMICROBIAL AGENTS | |
| A5-P-TUE-P1-10 | Ph.D candidate Christina Gkanatsiou ¹ , Assis. Prof. Katerina Karamanoli ² , Prof. Urania Menkissoglu-Spiroudi ³ , Prof.Catherine Dendrinou-Samara ¹ ¹ Inorganic Chemistry Lab, Chemistry Department, Aristotle University of Thessaloniki, Greece, 54124 Thessaloniki, Greece, Thessaloniki, Greece, ² Agricultural Chemistry Laboratory, Faculty of Agriculture, School of Agriculture, Forestry and Environment, Aristotle University of Thessaloniki, 54124, Thessaloniki, Thessaloniki, Greece, Thessaloniki, 54124, Thessaloniki, Thessaloniki, Greece | |
| | Cu ₂ 0 & CuFeO ₂ Nanoparticles: Synthetic aspects and antimicrobial properties | |
| A5-P-TUE-P1-11 | A.G. Ampatzidis ¹ , O. Antonoglou ¹ , J. Arvanitidis ² , S. Mourdikoudis ^{3,4} , A. Pantazaki ¹ , C. Dendrinou-Samara ¹ Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ UCL Healthcare Biomagnetic and Nanomaterials Laboratories, London, United Kingdom, ⁴ Biophysics Group, Department of Physics and Astronomy, University College London (UCL), London, United Kingdom | |
| | SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY OF PEGYLATED Cuzn/C NANOPARTICLES | |
| A5-P-TUE-P1-12 | A. Theodoropoulou ¹ , O. Antonoglou ¹ , E. Pavlidou ² , G. Vourlias ² , A. Pantazaki ¹ , C. Dendrinou-Samara ¹ Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece | |
| | HIGHLY STABLE HYDROPHILIC Zn-DOPED FERRITE NANOPARTICLES AS MRI AGENTS | |
| A5-P-TUE-P1-13 | T. Karamova ¹ , V. Georgiadou ¹ , A. Makridis ² , C. Dendrinou-Samara ¹ | |
| | Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece | |
| A5-P-TUE-P1-14 | A GREEN ONE-STEP FABRICATION OF FLUORESCENT NANOPARTICLES FOR BIOIMAGING APPLICATION BY PHOTOINITIATED AQUEOUS FATTY ACID DIMERIZATION-INDUCED SELF-ASSEMBLY | |
| | Ms. Qin Dai ¹ , Dr. He Zhao ¹ , Prof. Hongbin Cao ¹ | |
| | 'Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China | |
| A5-P-TUE-P1-15 | LOW-TEMPERATURE BENCHTOP-SYNTHESIS OF ALL-INORGANIC PEROVSKITE NANOWIRES | |
| | Athanassia Kostopoulou¹, M. Sygletou¹, Konstantinos Brintakis¹,², Alexandros Lappas¹, Emmanuel Stratakis¹,³ | |
| | ¹ Institute of Electronic Structure and Laser, Foundation for Research and Technology , Vassilika Vouton, Heraklion, Greece, ² Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Department of Materials Science and Technology, University of Crete, Vassilika Vouton, Heraklion, Greece | |

| | TIME: 13:00–15:00 ROOM: FOYER, E1/M1 |
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| Pl | Tuesday, September 19, 2017 |
| | Symposium A.6-I: Advanced Materials for Space Exploration/Part 1 |
| | IDENTIFICATION OF PARAMETERS INFLUENCING THE GLAZE LAYER EVOLUTION AT HIGH TEMPERATURE FOR A WASPALOY/RENÉ125 CONTACT UNDER FRETTING WEAR SOLICITATIONS |
| A6-I-P-TUE-P1-1 | Dr. Fathia Alkelae ¹ |
| | [†] Ecole Centrale de Lyon, Lyon, France |
| | ACCELERATED AGING AND DEGRADATION ANALYSIS OF THPP, BKN03, AND ZPP |
| A6-I-P-TUE-P1-2 | <u>Dr. Jong Gyu Paik</u> ¹ , Dr. Byunzg Tae Ryu ¹ , Senior Researcher Zaeill Kim ¹ |
| A0-I-P-IUE-PI-Z | ¹ Agency For Defense Development, Daejeon, South Korea |
| | CHARACTERIZATION OF THE LONG TERM SERVED BORON-POTASSIUM NITRATE IGNITER MATERIAL |
| A6-I-P-TUE-P1-3 | <u>Dr. Byung Tae Ryu</u> ¹ , Dr. Jong Gyu Paik ¹ , Dr. Zaill Kim ¹ |
| 7.011 10211 0 | ¹ Agency Defense Development, Daejeon, South Korea |
| A6-I-P-TUE-P1-4 | SELECTION OF MATERIALS AND PANELS FOR INTEGRATED THERMAL PROTECTION SYSTEMS BY THERMOMECHANICAL ANALYSIS |
| | <u>Dr. Oleg Udovyk</u> ¹ , Prof. Genadiy Frolov ¹ |
| | ¹ Institute for Problems of Material Science of NASU, Kiyv, Ukraine |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| Pl | Tuesday, September 19, 2017 |
| FI | Symposium A.7-I: Functional Nanomaterials for Novel Applications/Part 1 |
| | SURFACTANT EFFECT ON THE MORPHOLOGY OF A NANOCRYSTALLINE HYDROXYAPATITE PREPARED BY HYDROTHERMAL SYNTHESIS FROM INDUSTRIAL WASTE PHOSPHOGYPSUM. ITS APPLICATION IN WASTEWATER TREATMENT |
| A7-I-TUE-P1-1 | Miss Hiba Bensalah ^{1,2} , Dr Maged Bekheet ¹ , Pr. Dr. Saad Alami Younssi ² , Pr.Dr. Mohamed Ouammou ² , Pr.Dr. Aleksander Gurlo ¹ 'Technical University Of Berlin, Berlin, Germany, ² University Hassan II of Casablanca, Casablanca, Morocco |
| | DIRECTIONAL FREEZING AND PARTICLE ALIGNMENT OF NANOCELLULOSE-BASED SUPER-INSULATING FOAMS |
| A7-I-TUE-P1-2 | Pierre Munier ¹ , Korneliya Gordeyeva ¹ , Dr. Andreas Fall ^{1,2} , Yingxin Liu ¹ , Prof. Lennart Bergström ¹ 'Stockholm University, Stockholm, Sweden, ² Innventia AB, Stockholm, Sweden |
| | PERESPECTIVE METHOD FOR RECEIVING OF NANOSTRUCTURED Zn-Al ALLOYS |
| A7-I-TUE-P1-3 | <u>Dr. Grygoriy Dmytriv</u> ¹ , Prof. Volodymyr Pavlyuk ¹ , Prof. Helmut Ehrenberg ² |
| | ¹Ivan Franko National University of Lviv, Lviv, Ukraine, ²Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen , Germany |
| | SYNTHESIS BY ION BEAM SPUTTERING AND CHARACTERIZATION OF Cr2AIC THIN FILMS |
| A7-I-TUE-P1-4 | <u>Dr. Ovidiu Crisan</u> ¹ , Dr. Alina Daniela Crisan ¹ |
| | 'National Institute For Materials Physics, Magurele, Romania, Magurele, Romania |
| | NIR OPTICAL AND X-RAY EXCITATION OF LUMINESCENCE IN Er DOPED OXIDE NANOPARTICLES FOR SPECTRAL CONVERTERS AND THERANOSTICS |
| A7-I-TUE-P1-5 | Mr Daniel Avram ^{1,2} , Dr. Bogdan Cojocaru ³ , Dr. Mihaela Florea ⁴ , Dr. Ion Tiseanu ¹ , Dr. Carmen Tiseanu ¹ |
| | ¹ National Institute for Laser, Plasma & Radiation Physics (INFLPR), Magurele, Romania, ² University of Bucharest, Faculty of Physics, Bucharest, Romania, ³ University of Bucharest, Physics, Bucharest, Romania, ⁴ National Institute of Materials Physics, Bucharest, Romania |
| | DEVELOPMENT OF LAYERED DOUBLE HYDROXIDES FOR HEAVY METAL REMOVAL |
| A7-I-TUE-P1-6 | Aikaterini Kamou¹, Konstantinos Simeonidis¹, Dimitrios Karfaridis¹, Eleni Pavlidou¹, Manassis Mitrakas², Georgios Vourlias¹ |
| | ¹ Department of Physics, Aristotle University Of Thessaloniki, 54124 Thessaloniki, Greece, ² Analytical Chemistry Laboratory, Department of Chemical Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece |
| | AG ULTRAFINE NANOPARTICLE-GRAPHENE SUBSTRATES FOR RAMAN AMPLIFICATION: SIZE AND STABILITY ISSUES |
| A7-I-TUE-P1-7 | Licenciada Montserrat Xochitl Aguilar-Pujol ¹ , Dr. Félix Jimenez-Villacorta ¹ , Dr. Esteban Climent-Pascual ¹ , Rafael Ramírez-Jiménez ^{1,2} , Dr Javier Bartolomé-Vilchez ¹ , Dr. Rafael Jiménez-Riobóo ¹ , Licenciado Leo Alvarez-Fraga ¹ , Dr Carlos Prieto ¹ , Dr Alicia de Andrés ¹ |
| | ¹ Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, Spain, ² Departamento de Física, Universidad Carlos III de Madrid, Madrid, Spain |
| | METAL-ORGANIC GELS: SOFT MATERIALS FOR A HARD WORLD |
| A7-I-TUE-P1-8 | <u>Daniel Vallejo Sánchez</u> ¹, Jonathan Albo², Garikoitz Beobide¹, Pedro Castaño¹, Oscar Castillo¹, Antonio Luque¹, Sonia Pérez-Yáñez¹ |
| | ¹ Basque Country University, UPV-EHU, Leioa, Spain, ² Cantabria University, UC, Santander, Spain |
| | BAND GAP AND ELECTRONIC STRUCTURE OF THE GROUP II-IV NITRIDE MgSiN2 |
| A7-I-TUE-P1-9 | Mr James Quirk ¹ , Dr Mikael Råsander ¹ , Miss Shiny Mathew ² , Mr Jonathan Rackham ¹ , Dr Robert Palgrave ² , Dr Michelle Moram ¹ |
| A/ 1 10E-11-7 | Department of Materials, Imperial College London, London, United Kingdom, Department of Chemistry, University College London, London, United Kingdom |
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| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| P1 | Tuesday, September 19, 2017 |
| | Symposium A.7-I: Functional Nanomaterials for Novel Applications/Part 1 |
| | SOLID-STATE DEWETTING OF Au-Ni BI-LAYER THIN FILMS DEPENDING ON INDIVIDUAL LAYER THICKNESS AND STACKING SEQUENCE |
| A7-I-TUE-P1-10 | Felix Theska ^{1,2} , Dr. Andreas Herz ¹ , Dr. Dong Wang ¹ , Prof. Dr. Dr. Peter Schaaf ¹ 1TU Ilmenau, Ilmenau, Germany, ² UNSW, Sydney, Australia |
| | KEKI - MODEL SWITCH FOR IN-SITU CHARACTERIZATION OF THE CONTACT |
| | RESISTANCE OF ELECTRICAL CONTACT MATERIALS |
| A7-I-TUE-P1-11 | DiplIng. Marcus Hopfeld ^{1,2} , DrIng. Diego Gonzales ^{1,2} , Prof. DrIng. Frank Berger ^{1,2} , Prof. Dr. Dr. Peter Schaaf ^{1,2} 'TU Ilmenau, Ilmenau, Germany, ² KEKI - Competence Center for Electrical Contacts Ilmenau, Ilmenau, Germany |
| | GLYCINE-ORGANIC MATRIX COMBUSTION SYNTHESIS (GLYCINE-OMCS): AN ALTERNATIVE METHOD FOR |
| | SYNTHESISING NANOSTRUCTURED NICKEL CATALYSTS FOR LIQUID PHASE HYDROGENATION |
| A7-I-TUE-P1-12 | Ms Olga Thoda ^{1,3} , Dr. Galina Xanthopoulou ¹ , Dr.George Vekinis ¹ , Dr. Alexander Chroneos ² ¹ Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis,, Greece, ² Centre for Manufacturing and Materials Engineering, University of Coventry, Coventry, United Kingdom, ³ Faculty of Engineering, Environment and Computing, University of Coventry, Coventry, United Kingdom |
| | FLAME-SPRAYED NANO-STRUCTURED COATINGS USING POWDERS PRODUCED BY SOLUTION COMBUSTION SYNTHESIS |
| A7-I-TUE-P1-13 | Mr Kosmas Papadopoulos ^{1,2} , Dr. Amalia Marinou ¹ , Dr. Galina Xanthopoulou ¹ , Dr. George Vekinis ¹ |
| | 'Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Agia Paraskevi Attikis,, Greece, ² Department of Materials Science and Engineering, University of Ioannina, Ioannina,, Greece |
| | DIFFERENT ROUTES TO SYNTHESIZE Fe-Ga-O THIN FILMS |
| A7-I-TUE-P1-14 | Dr. Alicia Prados ¹ , Dr. Álvaro Muñoz-Noval ² , Dr. Rocío Ranchal ¹ ¹Dpto. Física de Materiales, Fac. CC. Físicas, Universidad Complutense de Madrid, Madrid 28040, Spain, ²Department of Applied Chemistry, Hiroshima University, Higashi-hiroshima, Japan |
| | MICROWAVE ABSORPTION PROPERTIES OF 1-ETHYL-3-METHYLIMADAZOLIUM THIOCYANATE AND 1-METHYL-3-PROPYLIMADAZOLIUM BIS TRIFLUOROMETHYLSULFONYL IMIDE IONIC LIQUIDS |
| A7-I-TUE-P1-15 | Mr Kwabena Offeh Gyimah ¹ , Dr Sergio Sanchez Sedago ¹ , Prof. Animesh Jha ¹ , Dr Muhammad Sandhu ² , Prof. Ian Hunter ² |
| | ¹ Institute of Materials Research, University Of Leeds, Leeds, United Kingdom, ² Institute of Microwaves & Photonics, University of Leeds, Leeds, United Kingdom |
| | SYNTHESIS, CHARACTERIZATION AND METAL SUBSTITUTION IN ALUMINOPHOSPHATE MATERIALS |
| A7-I-TUE-P1-16 | Miss Dana AlShami¹, Dr. Georgia Basina*¹, Mr. Fadi Dawaymeh¹, Dr. Balasubramanian Vaithilingam2, Ms. Abeer AlYafeai³, Ms. Anjana Tharakshmy³, Dr. Georgios Karanikolos N¹, Dr. Yasser Al Wahedi*¹ |
| | 'Department of Chemical Engineering, The Petroleum Institute, P.O. Box 2533, UAE, Abu Dhabi, United Arab Emirates, ² Takreer Research Center, Abu Dhabi Oil Refining Company (TAKREER), P.O. Box: 3593, UAE, Abu Dhabi, United Arab Emirates, ³ ADNOC Research & Innovation Center, Petroleum Institute, P.O. Box 2533, UAE, Abu Dhabi, United Arab Emirates |
| | FAST ELECTROSTATIC-BASED PROTEIN DETECTION USING OPTICAL FIBER SENSORS FUNCTIONALIZED WITH AMPHIPHILIC BLOCK-COPOLYMERS |
| A7-I-TUE-P1-17 | Ms Afroditi Petropoulou ^{1,3} , Mr Tomas Gibson ² , Dr. Efrosyni Themistou ² , Dr. Stergios Pispas ¹ , Dr. Christos Riziotis ¹ 'National Hellenic Research Foundation, Athens, Greece, ² School of Chemistry and Chemical Engineering, Queen's University Belfast, Belfast, United Kingdom, ³ Department of Informatics and Telecommunications, University of Peloponnese, Tripolis, Greece |
| | HYDROGEN DETECTION PROPERTIES OF NANOPOROUS PALLADIUM SENSOR |
| A7-I-TUE-P1-18 | Mr. Hee-Jun Noh ^{1,2} , Dr. Hyun-Jong Kim ¹ , Prof. Jin-Seong Park ² , Dr. Ho-Nyun Lee ¹ ¹Korea Institute Of Industrial Technology, Yeonsu-gu, South Korea, ² Hanyang University, Seongdong-gu, South Korea |

| | TIME: 13:00–15:00 R00M: F0YER, E1/M1 |
|----------------|--|
| P1 | Tuesday, September 19, 2017 |
| Г | Symposium A.7-I: Functional Nanomaterials for Novel Applications/Part 1 |
| | OPTICAL PROPERTIES OF Y203 AND ER-DOPED Y203 THIN FILMS |
| A7-I-TUE-P1-19 | Research Asst Fatma UNAL ¹ , Sebahattin Gurmen ¹ , Kursat Kazmanli ¹ , Mustafa Urgen ¹ **Istanbul Technical University, Department of Metallurgical and Materials Engineering, Istanbul, Turkey |
| A7-I-TUE-P1-20 | ELABORATION OF AN ELECTRODE MATERIAL BASED ON CARBON PASTE MODIFIED BY COBALT NANOPARTICLES. APPLICATION TO THE DETECTION OF URIC ACID |
| | <u>Dr Dehbia Oukil</u> ^{1,2} , Ms Meriouma Araoun ² , Ms Nawel Chouchou ² , Prof Razika Aitout ² , Prof Laid Makhloufi ² |
| | 'Département de T.C.S.N, Faculté des Sciences de la Nature et de la Vie. Université A/Mira , Route Targa Ouzemour, 06000 Bejaia (Algérie), Algeria, ² Laboratoire d'Electrochimie, de Corrosion et de Valorisation Energétique. Université A/Mira , Route Targa Ouzemour, 06000 Bejaia (Algérie), Algeria |
| | ACTUATION OF DEALLOYED, NANOPOROUS PALLADIUM UPON ELECTROCHEMICAL HYDROGENATION: EFFECTS OF STRAIN RATE AND TYPE OF ELECTROLYTE |
| A7-I-TUE-P1-21 | <u>DiplIng. Markus Gößler</u> ¹ , Dr. Eva-Maria Steyskal ¹ , Prof. Dr. Roland Würschum ¹ 'Institute of Materials Physics, Graz University of Technology, Austria |
| | NANOMATERIALS-BASED FORCE SENSOR APPLICATION IN HAND-HELD SURGICAL TOOL |
| A7-I-TUE-P1-22 | Dr. Phillip Lee ¹ ¹Korea Institute of Science and Technology, Seoul, South Korea |
| A7-I-TUE-P1-23 | THE QUEST FOR NANO INSULATION MATERIALS APPLYING HOLLOW SILICA NANOSPHZ ERES AND NANOFIBERS |
| | Mathieu Grandcolas ¹ , Bjørn Petter Jelle ^{2,3} , Tao Gao ² , Ole Martin Løvvik ^{1,4} , Rolf André Bohne ² , Sohrab Alex Mofid ² , Serina Ng ³ , Espen Sagvolden ¹ |
| | ¹ Sintef Materials And Chemistry, Oslo, Norway, ² Norwegian University of Science and Technology (NTNU), Trondheim, Norway, ³ SINTEF Building and Infrastructure, Trondheim, Norway, ⁴ University of Oslo (UiO), Oslo, Norway |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
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| PI | Tuesday, September 1 | 9, 201 <i>7</i> | |
| F 1 | Symposium A.8: Materials b | y Design | |
| A8-P-TUE-P1-1 | ELECTRICAL CONDUCTIVITY, SPECIFIC HEAT, AND MAGNETIC IN LaMn1-xCrx03 PEROVSKITE COMPOUNDS | ORDERING | |
| | Kostas Georgalas ¹ , Assis. Prof. Emmanuel Syskakis ¹ , Alexandros Samartzis ¹ , Nikolaos Biniskos ² | | |
| | ¹ Section of Solid State Physics, Department of Physics, National and Kapodis Gr-15784 Zografos, Athens, Greece, ² Julich Centre for Neutron Science, JCN Forschungszentrum Julich Gmb, D-52425 Juelich, Germany | | |
| | ELECTRICAL PROPERTIES OF VO ₂ LAYERS ON Y-ZrO ₂ SUBSTR | ATES | |
| A8-P-TUE-P1-2 | Mr Andreas Theodorou ¹ , Mr Emmanuel Syskakis ¹ Section of Solid State Physics, Department of Physics, National And Kapodis | strian University Of Athens, | Athens, Greece |
| | SYNTHESIS, THERMAL STABILITY, AND ELECTRICAL CONDUC | TIVITY OF Sr2Pd03 | |
| A8-P-TUE-P1-3 | <u>Dr. Emmanuel Syskakis</u> 1, Dimitra Bourazani1, Dr. Dimitrios | Bessas ² | |
| | ¹ Section of Solid State Physics, Department of Physics, National and Kapodis ² Delft University of Technology, Mekelweg 15, 2629 JB Delft, the Netherland | | Athens, Greece, |
| A8-P-TUE-P1-4 | STACKING OF CHELATE RINGS | | |
| | Snezana Zaric ^{1,2} , Dusan Malenov ² | | |
| | ¹ Texas A&m University At Qatar, Doha, Qatar, ² University of Belgrade, Belgrad | de, Serbia | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P1 | Tuesday, September 19, 2017 |
| | Symposium B.2: Light Weight Metals |
| | MECHANICAL BEHAVIOR OF THREE-DIMENSIONAL PYRAMIDAL ALUMINUM LATTICE MATERIAL |
| B2-P-TUE-P1-1 | Professor Fusheng Han ¹ , Dr. Yingjie Huang ¹ , Dr. Yingying Xue ¹ 'Institute Of Solid State Physics, Chinese Academy Of Sciences, Hefei, China |
| | MICROSTRUCTURES IN COMMERCIALLY PURE TITANIUM OBTAINED BY INCOMPLETE PHASE TRANSFORMATION |
| B2-P-TUE-P1-2 | Karel Tesař ¹ , Viera Gärtnerová ² , Kamil Daněk ² , Aleš Jäger ² ¹Czech Technical University In Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czech Republic, ²Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic |
| | EFFECT OF CROSS SECTIONAL SHAPE OF STRUTS ON THE MECHANICAL PROPERTIES OF ALUMINUM BASED PYRAMIDAL LATTICE STRUCTURES |
| B2-P-TUE-P1-3 | Prof. Fusheng Han ¹ , Dr. Yingjie Huang ¹ , Dr. Yingying Xue ¹ , Dr. Xinfu Wnag ¹ 'Institute Of Solid State Physics, Chinese Academy Of Sciences, Hefei, China |
| | CORRELATIVE CHARACTERIZATION OF LONG PERIOD STACKING ORDERED (LPSO) PHASE FRACTION IN EXTRUDED MAGNESIUM RARE EARTH ALLOYS |
| B2-P-TUE-P1-4 | Mr. Kyle Nicholson ¹ , Prof. Rimma Lapovok ¹ , Dr. Chunjie Xu ² , Prof. Eugen Rabkin ³ , Prof. Peter Hodgson ⁴ |
| | ¹ Institute for Frontier Materials, Deakin University, Geelong, Australia, ² School of Materials Science & Engineering, Xi'an University of Technology, Xi'an, China, ³ Department of Materials Science and Engineering, Technion Israel Institute of Technology, Haifa, Israel, ⁴ Office of DVC (Research), Deakin University, Geelong, Australia |
| | EFFECT OF TEST CONDITIONS ON NANOINDENTAION DEFORMATION BEHAVIOR OF GUM METAL |
| B2-P-TUE-P1-5 | Yuki Shibayama ¹ , Kohei Onose ¹ , Shigeru Kuramoto ¹ , Takuya Suzuki ² , Eri Nakagawa ² , Takahito Ohmura ³ |
| | ¹Ibaraki University, Hitachi, Japan, ²National Institute for Materials Science, Tsukuba, Japan, ³National Institute for Materials Science & Kyushu University, Tsukuba & Fukuoka, Japan |
| | DEFORMATION MECHANISM ANALYSIS OF SOLUTION TREATED GUM METAL BY IN-SITU TEM COMPRESSION TEST |
| B2-P-TUE-P1-6 | Kohei Onose ¹ , Yuki Shibayama ¹ , Shigeru Kuramoto ¹ , Takahito Ohmura ^{2,3} , Takuya Suzuki ² , Eri Nakagawa ² |
| | ¹Ibaraki University, Hitachi, Japan, ²National Institute for Materials Science, Tsukuba, Japan, ³Kyushu University, Fukuoka, Japan |
| | INFLUENCE OF GRAIN SIZE AND AMOUNT OF ALUMINUM ON MECHANICAL PROPERTIES IN Mg-Al-Zn BASE ALLOY |
| B2-P-TUE-P1-7 | Yuya Sakaoka ¹ , Takeshi Sudou ¹ , Shigeru Kuramoto ¹ , Akira Kurumada ¹ |
| | ¹Ibaraki University, Hitachi, Japan |
| | EFFECT OF THERMO-MECHANICAL PROCESSING ON MICROSTRUCTURE, MICROHARDNESS AND TENSILE PROPERTIES OF Ti-Nb-Zr-Ta-O ALLOY |
| B2-P-TUE-P1-9 | <u>Bc. Dalibor Preisler</u> ¹ , RNDr., Ph.D. Josef Stráský ¹ , Dr.techn. Fernando Warchomicka ² , Prof. RNDr., CSc. Miloš Janeček ¹ |
| | ¹ Charles University In Prague, Department Of Physics Of Materials, Prague, Czech Republic, ² Graz University of Technology, Institute of Materials Science and Welding , Graz, Austria |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
|-----------------|--|
| P1 | Tuesday, September 19, 2017 |
| | Symposium B.2: Light Weight Metals |
| B2-P-TUE-P1-10 | THE EVALUATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES AFTER DIFFERENT DEGREES OF PLASTIC DEFORMATION IN 2014 ALLOY |
| | MSc Eng Milena Koralnik ¹ , PhD Eng Boguslawa Adamczyk-Cieslak ¹ , Prof. PhD Eng Jaroslaw Mizera ¹ |
| | ¹Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland |
| DO D 7115 D4 44 | LIQUID METAL ENGINEERING AT THE BRUNEL CENTRE FOR ADVANCED SOLIDIFICATION TECHNOLOGY (BCAST) |
| B2-P-TUE-P1-11 | Mr. Eric Nyberg ¹ , Dr. Chamini Mendis ¹ , Dr. Xinliang Yang ¹ , Dr. Shouxun Ji ¹ , Dr. Zhongyun Fan ¹ 'Brunel University London - BCAST, Uxbridge, United Kingdom |
| | TENSILE PROPERTIES AND FRACTURE BEHAVIOR OF FRICTION STIR WELDING 2198 AL-Li ALLOY |
| B2-P-TUE-P1-12 | Prof. Yue Ma ¹ , Mengmeng Li ¹ , Dr. Chong Gao ² , Prof. Xiaolan Zeng ¹ Beihang University, Beijing, China, ² Chinalco Research Institute of Science and Technology, Beijing, China |
| | EFFECT OF Mg ADDITION ON THE MICROSTRUCTURAL CHARACTERISTICS OF AL-SI EUTECTIC ALLOYS |
| B2-P-TUE-P1-13 | Biljana Zlatičanin 'University of Montenegro, Faculty of metallurgy and technology, Podgorica, Montenegro |
| | CASTING, ROLLING AND FRICTION STIR WELDING IN MAGNESIUM ALLOYS WITH MISCHMETAL ADDITION |
| B2-P-TUE-P1-14 | Dr. Erenilton Pereira Da Silva ¹ , Dr. Ulises Alfaro ² , Engineering Victor Pereira Ferinho ⁴ , Dr. Gullermo Carlos Requena ² , Dr. Haroldo Cavalcante Pinto ³ |
| | ¹ State University Of Campinas (UNICAMP), São Carlos, Brazil, ² German Aerospace Center (DLR) Institute of Materials Research, Cologne, Germany, ³ Engineering School of São Carlos, University of São Paulo, Department of Materials Engineering, São Carlos, Brazil, ⁴ Brazilian Nanotechnology National Laboratory, Campinas-SP, Brazil, São Carlos, Brazil |
| | EFFECT OF ZIRCONIUM ADDITION ON INTERGRANULAR CORROSION OF SEVERELY DEFORMED ALUMINUM ALLOY |
| B2-P-TUE-P1-15 | <u>Dr. Stanislav Krymski</u> y¹, Rafis Ilyasov¹, Aydar Akhiyarov¹, Dr. Elena Avtokratova¹, Dr. Oleg Sitdikov¹, Dr. Michael Markushev¹ |
| | ¹Institute For Metals Superplasticity Problems Ras, Ufa, Russian Federation |
| | MICROSTRUCTURE EVOLUTION AND MECHANICAL PROPERTIES OF WARM-ROLLED TI-AL-Fe ALLOY |
| B2-P-TUE-P1-16 | Yongmoon Lee ¹ , Jong Woo Won ² , Chong Soo Lee ¹ 'Graduate Institute of Ferrous Technology (GIFT), Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea, ² Titanium department, Korea Institute of Materials Science (KIMS), Changwon, Republic of Korea |
| B2-P-TUE-P1-17 | HIGH MODULUS ALUMINIUM-BASED NANOCOMPOSITES: NEW REQUIREMENT OF AUTOMOTIVE MARKET |
| D2-F-10E-F1-17 | Dr. Sajjad Amirkhanlou ¹ , Dr. Yijie Zhang ¹ , Dr. Shouxun Ji ¹ ¹BCAST, Brunel University London, London, United Kingdom |
| | EFFECT OF THE Sc AND Zr RICH DISPERSOIDS ON THE PRECIPITATION SEQUENCE IN AI-Cu ALLOYS |
| B2-P-TUE-P1-18 | Doctor Baptiste Rouxel ¹ , Doctor Thomas Dorin ¹ 'Institute Of Frontier Materials, Deakin University, Geelong, Australia |
| | INFLUENCE OF CORROSION ON MECHANICAL PROPERTIES AND MICROSTRUCTURE OF 3XXX, 5XXX AND 6XXX SERIES ALUMINIUM ALLOYS |
| B2-P-TUE-P1-19 | Marcel Wiewióra¹, Beata Leszczyńska-Madej¹, Łukasz Wzorek¹, Wojciech Sajdak¹, Maria Richert², Grzogorz Ziobro³ |
| | 'University of Science And Technology, Faculty of non-Ferrous Metals, Krakow, Poland, ² University of Science and Technology, Faculty of Management, Krakow, Poland, ³ Boryszew S.A, oddział Maflow , Tychy, Poland |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| Pl Pl | Tuesday, September 19, 2017 |
| | Symposium B.3: High-temperature alloys |
| B3-P-TUE-P1-1 | EFFECT OF MECHANICAL PROCESSING IN THE CORROSION RESISTANCE OF X-750 SUPERALLOY |
| | <u>Dra Sinara Borborema</u> ^{1,2,3} , Mr E.S.R. Gouvêa ³ , Dr L.S. Araujo ² , MSc G.R.X. de Souza ² , Dr Jean Dille ² , Dra M.O.T. da Conceição ³ , Dr. L H. de Almeida ² 1 UERJ, Resende, Brazil, ² UFRJ, Rio de Janeiro, Brasil, ³ UniFOA, Volta Redonda, Brasil |
| | INFLUENCE OF AGING ON THE MICROSTRUCTURE OF A Fe-Ni SUPERALLOY |
| B3-P-TUE-P1-2 | PhD Pilar Valles ¹ , PhD Ana Pastor ¹ , PhD María García ¹ , Graduated Beatriz González ¹ 'Inta, Torrejón De Ardoz, Spain |
| | COMPARISON OF CORROSION RESISTANCE OF AUSTENITIC STEEL 309 AND INCONEL 625 IN RENEWABLE FUEL ASH ENVIRONMENTS |
| B3-P-TUE-P1-3 | Mgr Aleksandra Dębowska ¹ , Dr. Hab. Inż Agnieszka Kopia ¹ , Dr. Hab. Aneta Magdziarz ¹ , Dr. Inż. Izabela Kalemba - Rec ¹ 'Agh University Of Science And Technology, Cracow, Poland |
| | HIGH-RESOLUTION CHARACTERIZATION OF HIGH-TEMPERATURE STRUCTURAL MATERIALS |
| B3-P-TUE-P1-4 | Felix Theska ¹ , Aleksandar Stanojevic ² , Dr. Bernd Oberwinkler ² , Dr. Sophie Primig ¹ 1UNSW Sydney, Australia, ² Böhler Schmiedetechnik GmbH & Co KG, Kapfenberg, Austria |
| | FAULT DIAGNOSIS IN WELDED JOINTS THROUGH THE APPLICATION OF STANDARD TEST TECHNIQUES |
| B3-P-TUE-P1-5 | Doctora En Ingeniería Ana María Furlani ¹ ¹Facultad De Ingeniería-UNCuyo, Godoy Cruz |
| | CHEMICAL AND MICROSTRUCTURAL MODIFICATIONS OF NI-BASED SUPERALLOY HAYNES®230 INDUCED BY PLASMA IMMERSION NITRIDING |
| B3-P-TUE-P1-6 | <u>Jean-baptiste Dubois</u> ¹ , Luc Pichon ¹ , Fadella Larek ¹ , Michel Drouet ¹ 'Institut Pprime - UPR 3346 CNRS, University of Poitiers, ISAE-ENSMA, France |
| | X RAY DIFFRACTION LINE PROFILE ANALYSIS OF TA6V TIG WELDS |
| B3-P-TUE-P1-7 | Master Lyacine Rabahi ^{1,2} , Doctor Brahim Mehdi ^{1,2} , Master Nabil Kherrouba ² , Doctor Riad Badji ² ¹ Research Center In Industrial Technologies Crti, Algiers, Algeria, ² University of Science and Technology Houari Boumediene (USTHB), Algiers, Algeria |
| | ATOM PROBE TOMOGRAPHY OF HIERARCHICAL MICROSTRUCTURES IN A Fe-Si-V ALLOY |
| B3-P-TUE-P1-8 | Dr. Florian Vogel ^{1,2,3} , Xuyang Zhou ³ , Sieglind Ngai ^{3,4} , Konrad Fricke ² , Dr. Nelia Wanderka ² , Prof. Dr. John Banhart ^{1,2} , Prof. Dr. Gregory B. Thompson ³ ¹ Technische Universität Berlin, Berlin, Germany, ² Helmholtz Zentrum Berlin, Berlin, Germany, ³ University of Alabama Tuscaloosa, Tuscaloosa, United States, ⁴ South China University of Technology, Guangzhou, Peoples Republic of China |
| | STRESS RELAXATION AND THERMOMECHANICAL PROCESSING OF NICKEL-BASED SUPERALLOY SPRINGS FOR HIGH TEMPERATURE APPLICATIONS |
| B3-P-TUE-P1-9 | Mr. Marc-Antony Coster ¹ , Dr. Simon Gill ¹ , Mr. Gordon McColvin ² 1 Leicester University, Leicester, United Kingdom, 2GE Power (formerly ALSTOM), Rugby, United Kingdom |
| | HIGH TEMPERATURE PROPERTIES OF FECRAL COATING WITH THE ALRICH BUFFER ZONES ON P92 SUBSTRATE |
| B3-P-TUE-P1-11 | <u>Dr. Olga Tsurtsumia</u> ¹ , Prof. Elguja Kutelia ¹ , Prof. Mikheil Okrosashvili ¹ , Mr. Tengiz Kukava ¹ 'Georgian Technical University, Tbilisi, Georgia |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|----------------|--|
| Pl I | Tuesday, September 19, 2017 |
| • • | Symposium B.5: Advanced Ceramics |
| B5-P-TUE-P1-2 | CRYSTALLIZATION BEHAVIOR OF AMORPHOUS SI-B-C-N CERAMIC SINTERED AT HIGH PRESSURE AND HIGH TEMPERATURE |
| | <u>Dr. Zhihua Yanq</u> , Dr. Bin Liang, Prof. Dechang Jia, Prof. Yu Zhou 'Harbin Institute Of Technology, Harbin, P.R.China |
| | SOME PROBLEMS TO GET ADVANCED PZT COATINGS FOR MEMS |
| B5-P-TUE-P1-3 | Professor Natalia Korobova ¹ , Professor Sergey Timoshenkov ¹ , Professor Gulmira Yar-Mukhamedova ² |
| | ¹ National Reseaech University of Electronic Technology MIET, Zelenograd, Moscow, Russian Federation, ² Al-Farabi Kazakh National University, Almaty, Kazakhstan |
| B5-P-TUE-P1-4 | SPARK PLASMA SINTERING OF MULLITE-3Y-TZP NANOPOWDERS PREPARED BY THERMAL PLASMA AND SOL-GEL SYNTHESIS METHODS |
| D3-F-10E-F1-4 | <u>Dr. Janis Grabis</u> ¹ , Mrs. Dzidra Jankoviča ¹ , Mr. Ints Šteins ¹ , Mrs. Inta Sīpola ¹ , Mrs. Māra Lubane ¹ ¹ Riga Technical University Institute of Inorganic Chemistry, Riga, Latvia |
| | RAPID PROTOTYPING CERAMIC FILTER APPLICATION IN INVESTMENT CASTING PROCESS |
| B5-P-TUE-P1-5 | Msc Eng Mateusz Konrad Koralnik¹, PhD Rafał Cygan², Prof. PhD. Eng. Jarosław Mizera¹ |
| | ¹ Faculty of Materials Science and Engineering, Warsaw University Of Technology, Warsaw, Poland, ² Faculty of Mechanical Engineering and Aeronautics, Rzeszow University of Technology, Rzeszów, Poland |
| | MORPHOLOGY AND MECHANICAL PROPERTIES OF CERAMIC SHELL MOLDS NEW GENERATION |
| B5-P-TUE-P1-6 | Phd Rafal Cygan ¹ , Mateusz Konrad Koralnik ² , Jarosław Mizera ² 1Faculty of Mechanical Engineering and Aeronautics, , Rzeszow University of Technology, al. Powstancow Warszawy 8, Rzeszow 35-959, Poland, 2Faculty of Materials Science and Engineering, Warsaw University of Technology, Woloska 141, 02-507 Warsaw, Poland |
| | THE ELECTRIC PROPERTIES OF STRONTIUM DOPED LaCoO3 THIN FILMS DEPOSITED BY PLD PROCESS |
| B5-P-TUE-P1-7 | MSc. Anna Cyza 1, PhD Wojciech Maziarz 1, PhD. Łukasz Cieniek 1, Prof. Agnieszka Kopia 1 'AGH- University of Science and Technology, Cracow, Poland |
| | PROPERTIES AND STRUCTURE OF BINARY AND TERNARY TELLURITE GLASSES |
| B5-P-TUE-P1-8 | Mrs. NagiaS. Tagiara ¹ , Mrs. Elham Moayedi ² , Prof. Apostolos Kyritsis ³ , Prof. Lothar Wondraczek2, Dr. Efstratiosl. Kamitsos1 1 Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece, 20tto Schott Institute |
| | of Materials Research, University of Jena, Jena, Germany, ³ National Technical University of Athens, Zografou Campus, Athens, Greece |
| | ANALYSIS OF THE ELECTRONIC CONDUCTIVITY OF THICK-FILM Gd-DOPED CERIA BY HEBB-WAGNER POLARIZATION METHOD |
| B5-P-TUE-P1-9 | Jong Hoon Joo ¹ , Gyeong Duk Nam ¹ , Young-jin Ryu ¹ , Jeong Hwan Park ¹ , Sin Myung Kang ¹ ¹ Chungbuk National University, Cheongju, South Korea |
| | SOLID SOLUTIONS OF MAX PHASES OBTAINED BY SHS SYNTHESIS |
| B5-P-TUE-P1-10 | M.Sc. Paulina Borowiak ¹ , M.Sc. Katarzyna Chabior, D.Sc. Leszek Chlubny, D.Sc. Dariusz Zientara, Prof. Jerzy Lis, Prof. Mirosław Bućko 1 University of Science and Technology, Kraków, Poland |
| | University of Science and Technology, Nakow, Foland |
| B5-P-TUE-P1-11 | TAPE CASTING FABRICATION OF METAL SILICIDES REINFORCED WITH GRAPHENE |
| | Dr. Dreidy Mercedes Vasquez Sandoval ¹ , Undergraduate Jahaziel Toro Carrasco ¹ , Dr. Ramalinga Mangalaraja ² , Dr. Jaime Morales ¹ |
| | ¹Escuela de Ingeniería Química, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2950, Valparaíso, Chile, Valparaiso, Chile, ²Escuela de Ingeniería Química, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2950, Valparaíso, Chile, Valparaíso, Chile, ³Advanced Ceramics and Nanotechnology Laboratory, Department of Materials Engineering, Faculty of Engineering, University of Concepcion, Concepcion 407-0409, Chile, Concepción, Chile, ⁴Escuela de Ingeniería Química, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2950, Valparaíso, Chile, Valparaíso, Chile |

| | TIME: 13:00–15:00 ROOM: FOYER, E1/M1 |
|----------------|---|
| P1 | Tuesday, September 19, 2017 |
| | Symposium B.5: Advanced Ceramics |
| B5-P-TUE-P1-12 | PHOTOCATALYTIC ACTIVITY OF CLAY CERAMIC COATED WITH TITANIA AND Zno NANOPARTICLES |
| | <u>Dr.hab.sc.ing. Visvaldis Svinka</u> ¹ , Dr.sc.ing. Ruta Svinka ¹ , Mg.sc. Oskars Lescinskis ¹ 'Riga Technical University Institute Of Silicate Naterials, Riga, Latvia |
| | TOUGHENING OF Nb205 DOPED ZIRCONIA BIOMATERIAL FABRICATED BY MICROWAVE SINTERING TECHNOLOGY |
| B5-P-TUE-P1-13 | Dr Amparo Borrell¹, Dr Maria Dolores Salvador¹, PhD Lorena Gil¹, Dr Felipe L. Peñaranda2, PhD Eugeni Cañas ⁴, Dr Carlos F. Gutierrez³ |
| | ¹Institute of Materials Technology, Universitat Politècnica De València, Valencia, Spain, ²Instituto de Aplicaciones de las Tecnologías de la Información y de las Comunicaciones Avanzadas (ITACA), Universitat Politècnica de València, Valencia, Spain, ³Centro de Investigación en Nanomateriales y Nanotecnología (CINN) [Consejo Superior de Investigaciones Científicas (CSIC), Universidad de Oviedo, Principado de Asturias]., El Entrego, Spain, 4Instituto de Tecnología Cerámica (ITC), Universitat Jaume I, Castellón, Spain |
| | DEVELOPMENT AND PROPERTIES OF NANOCOMPOSITE Al203-NIAl204 BY REACTIVE SINTERING |
| B5-P-TUE-P1-14 | Phd student Fotini Petrakli ¹ , Prof Athena Tsetsekou ¹ 'School of Mining and Metallurgical Engineering, National Technical University of Athens, Athens, Greece |
| | MAGNETORESISTANCE OF THE HIGH-PRESSURE PEROVSKITE-LIKE PHASES Gd0.7Cu3V4012 AND Er0,73Cu3V4012 AT PRESSURES UP TO 50 GPa |
| B5-P-TUE-P1-15 | Irina Ustinova ¹ , Nina Melnikova ¹ , Nadezhda Kadyrova ² , Alexander Tebenkov ¹ , Alexey Babushkin ¹ 'Ural Federal University, Ekaterinburg, Russian Federation, 'ISSC UB RAS, Ekaterinburg, Russian Federation |
| | THERMAL BEHAVIOR OF LOCAL STRUCTURE IN LITHIUM PEROXIDE Li202 |
| B5-P-TUE-P1-16 | Dr. Yoshitaka Matsushita ¹ , Dr. Motoharu Imai ¹ , Dr. Masashi Miyakawa ¹ , Dr. Satoshi Kawada ¹ 'NIMS, Tsukuba, Japan |
| 25 25 25 24 45 | INFLUENCE OF THE ZrSiO4 AND ZnO ON THE WHITENESS AND PHYSICAL-MECHANICAL PROPERTIES OF INDUSTRIAL CERAMIC SANITARY-WARE |
| B5-P-TUE-P1-17 | Boudeghdegh Kamel ¹ 'LEAM, Faculty of Sciences and Technology, University Mohammed Seddik ben Yahia- JijelUniversity of Jijel, Jijel, Algeria |
| | DESIGN OF NOVEL MATERIALS BASED ON ORTHOPHOSPHATES WITH CONTROLLABLE THERMAL EXPANSION |
| B5-P-TUE-P1-18 | <u>Dr., Ass. Professor Vladimir Pet'kov</u> ¹, Dr., Ass. Professor Elena Asabina, postgraduate Alexander Shipilov, postgraduate Anton Dmitrienko, postgraduate Artemy Alekseev, postgraduate Dmitriy Lavrenov, Dr. Igor Schelokov |
| | Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russian Federation MICROSTRUCTURE OF EUROPIUM NIOBATE AND TANTALATE |
| | THIN FILMS PREPARED BY SOL-GEL METHOD |
| B5-P-TUE-P1-19 | PhD. Helena Brunckova ¹ , PhD. Lubomir Medvecky ¹ , PhD. Erika Mudra ¹ , PhD. Alexandra Kovalcikova ¹ , PhD. Juraj Durisin ¹ , PhD. Martin Sebek ¹ 'Institute of Materials Research Slovak Academy of Sciences, Kosice, Slovakia |
| | |
| | TWO STEP SINTERING ROUTE FOR ALUMINA-BASED CERAMICS |
| B5-P-TUE-P1-20 | Maksim Boldin ¹ , Aleksander Popov ¹ , Eugene Lantsev ¹ , Aleksey Nokhrin ¹ , Vladimir Chuvil'deev ¹ 1Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod, Russian Federation |
| | INFLUENCE OF THE REDUCED GRAPHENE OXIDE (rGO) ON THE MICROSTRUCTURE AND PROPERTIES OF THE CERAMICS ZrO2-Y2O3 |
| B5-P-TUE-P1-22 | postgraduate Artyom Glukharev ¹ , Sc.D. Vladimir Konakov ¹ , Ph.D. Olga Kurapova ¹ , student Valeria Lebedeva ¹ , postgraduate Evgeny Boltynyuk ¹ 'Saint-Petersburg State University, Saint-Petersburg, Russian Federation |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 | |
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| PI | Tuesday, September 19, 2017 | |
| | Symposium B.5: Advanced Ceramics | |
| | DIELECTRIC PROPERTIES OF HYDROXYAPATITE OBTAINED BY BOVINE BONE AT HIGH TEMPERATURES | |
| B5-P-TUE-P1-23 | <u>Laura Daniela Valencia Molina</u> ¹ , Jose Humberto Castillo Chamorro ¹ , Cristian Felipe Ramirez Gutierrez ² , Sandra Milena Londoño Restrepo ² , Mario Enrique Rodriguez Garcia ² | |
| | ¹ Universidad Del Quindío, Armenia, Colombia, ² Universidad Nacional Autónoma de México , Santiago de Queretaro, Mexico | |
| | MICROMECHANICAL MAPPING OF CEMENTITIOUS MATERIALS | |
| B5-P-TUE-P1-24 | <u>Dr. Ude Dirk Hangen</u> ¹ , Dr. Jaroslav Lukes ¹ , Dr. Douglas Stauffer ¹ | |
| | ¹ Bruker Nanosurfaces / Hysitron, Minneapolis, USA | |
| B5-P-TUE-P1-25 | THE EFFECT OF RESIDUAL STRESS ON WHISKER REINFORCEMENTS IN SICW-Al203 COMPOSITES DURING COOLING | |
| | Weiwei Wu ^{1,2} , Jingya Gui ² , Tianbin Zhu ² , Zhipeng Xie ² | |
| | ¹ Utrecht University, Utrecht, Netherlands, ² Tsinghua University, Beijing, China | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| PI | Tuesday, September 19, 2017 |
| | Symposium B.6: Advanced Composites |
| B6-P-TUE-P1-1 | A NUMERICAL STUDY FOR EXAMINING THE WIDTH OF THE FLUCTUATIONS IN THE ELECTRICAL PERCOLATION THRESHOLD WITH THE THICKNESS OF A METAL-DIELECTRIC COMPOSITE |
| | Dr. Mohamed Mokhtari ^{1,2} , Pr. Lotfi Zekri ² , Pr. Noureddine Zekri ² ¹ University Center Of Tissemsilt, Tiaret, Algeria, ² USTO, Département de Physique, LEPM, BP 1505 El M'Naouar, Oran, Algérie, Oran, Algeria |
| | INFLUENCE OF DEBINDING AND SINTERING ON MICROSTRUCTURAL EVOLUTION OF MICRO HOT-EMBOSSED AISI 316L REINFORCED WITH CARBON NANOTUBES |
| B6-P-TUE-P1-2 | Mr Omid Emadinia ¹ , Dr Sonia Simões ¹ , Prof. Teresa Vieira ² , Assoc. Prof. Manuel Vieira ¹ |
| | ¹ CEMUC, Department of Materials and Metallurgical Engineering, University of Porto, Portugal, Porto, Portugal, ² CEMUC, Department of Mechanical Engineering, University of Coimbra, Portugal, Coimbra, Portugal |
| | THE EFFECT OF NICKEL COATING ON THE PROPERTIES OF Cu-SIC COMPOSITES |
| B6-P-TUE-P1-3 | Phd Marcin Chmielewski ¹ , Prof. Katarzyna Pietrzak ¹ , PhD Agata Strojny-Nędza ¹ , MSc Kamil Kaszyca ¹ , PhD Szymon Nosewicz ² , PhD Dariusz Jarząbek ² |
| | ¹ Institute of Electronic Materials Technology, Warsaw, Poland, ² Institute of Fundamental Technological Research Polish Academy of Sciences, Warsaw, Poland |
| | INFLUENCE OF THE TYPE OF REINFORCEMENTS ON THE THERMAL PROPERTIES OF COPPER-BASED COMPOSITES |
| B6-P-TUE-P1-4 | Ph.D Agata Strojny-Nedza ¹ , Prof. Katarzyna Pietrzak ¹ , MSc Anna Bańkowska ¹ , PhD Marcin Chmielewski ¹ |
| | ¹ Institute of Electronic Materials Technology, Warsaw, Poland |
| | THE INFLUENCE OF THE THERMAL RESIDUAL STRESSES ON THE THERMAL PROPERTIES OF MULTILAYERED Cu/SiC/Cu SYSTEMS |
| B6-P-TUE-P1-5 | Prof. Katarzyna Pietrzak ¹ , PhD Agata Strojny-Nędza ¹ , PhD Witold Węglewski ² , Prof. Michał Basista ² |
| | ¹ Institute of Electronic Materials Technology, Warsaw, Poland, ² Institute of Fundamental Technological Research Polish Academy of Sciences, Warsaw, Poland |
| | MECHANICAL CHARACTERISTICS OF RADIATION CROSS-LINKED HYDRO POLYMERIC COMPOSITES AND ANISOTROPY AUTOMATED SYSTEM "KERN-DP" |
| B6-P-TUE-P1-6 | Ph.D., Sen. Sci. Res. Anatoliy Petrovich Onanko ¹ , Prof., Dr. Sci. Sergey Vyzhva ¹ , Ph.D. Yuriy Onanko ¹ *National University of Kyiv, Kyiv, Ukraine |
| | INFLUENCE OF SURFACE FINISH AND DIMENSIONS OF BFRP BARS ON THEIR PULLOUT STRENGTH |
| B6-P-TUE-P1-7 | Montse Haro Rodríguez¹, Victor Calvet Rodríguez¹, Manuel Valcuende Payá¹, Vicente Amigó Borrás¹¹Universidad Politecnica De Valencia, Valencia, Spain |

TIME: 13:00-15:00

ROOM: FOYER, E1/M1

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| PI = | Symposium B.6: Advanced Composites |
| B6-P-TUE-P1-8 | CHARACTERISATION BY INDENTATION OF GLASS / POLYESTER COMPOSITES: EFFECT OF THE RESIN POLYMERISATION PROCESS |
| | Dr Sylvain Giljean ¹ , Dr Marie-José Pac ¹ , Dr Cyril Marsiquet ¹ , Miss Basma Hasiaoui ¹ , PhD Ahmad Ibrahim ² , PhD Gildas L'Hostis ¹ |
| | ¹ Université de Haute-Alsace, Laboratoire de Physique et Mécanique Textiles, Mulhouse, France, ² Université de Haute-Alsace, Laboratoire de Photochimie et d'Ingénierie Macromoléculaires, Mulhouse, France |
| | INFLUENCE OF PROCESSING PARAMETERS ON THE MECHANICAL PROPERTIES OF THREE DIFFERENT LONG CARBON/GLASS FIBRE REINFORCED THERMOPLASTICS |
| B6-P-TUE-P | M.sc. Jan-Marc Tiemann ¹ , Prof. DrIng. habil. Ulrich Krupp ¹ , Prof. DrIng. Rainer Bourdon ¹ 'Hochschule Osnabrück, Osnabrück, Germany |
| | STUDY OF THE USE OF SANDWICHES PANELS IN BAJA VEHICLE FLOORS |
| B6-P-TUE-P | 1-10 Undergraduate Francisco Sousa ¹ , Undergraduate Carlos Araujo ¹ , Undergraduate Marcus Rodrigues ¹ , Undergraduate Alaí S. Machado ¹ , Undergraduate Gean M. Mota ¹ **Instituto Federal de Educação, Ciência e Tecnologia do Piauí, Teresina, Brazil |
| | PROPERTIES OF MICRO/NANOSCALE CERAMICS-LIKE "CELLULOSE + OXIDE" COMPOSITE |
| B6-P-TUE-P | Prof. Serhii Nedilko ¹ , Ph.D. Olexander Alekseev ¹ , Ph.D. Vitalii Chornii ¹ , Prof. Sergiy Revo ¹ , Mr. Maksym Nedielko ² |
| | ¹ Taras Shevchenko National University of Kyiv, Kyiv, Ukraine, 20. Paton Electric Welding Institute of NASU, Kyiv, Ukraine |
| | SYNTHESIS OF SIC-MSi2 (M=M0, V) COMPOSITE MATERIALS BY REACTIVE INFILTRATION |
| B6-P-TUE-P | 1-12 Professor Javier Narciso ¹ , Doctor Mario Caccia ¹ , Master Adrian Ortega ¹ 'Alicante University, Alicante, Spain |
| D/ D TUT D | ANALYSIS OF MECHANICAL BEHAVIOUR IN SANDWICH COMPOSITE BENDING WITH CORE MATERIAL TYPE HONEYCOMB |
| B6-P-TUE-P | Pedro Sousa Instituto Federal de Educação, Ciência e Tecnologia do Piauí, Teresina, Brasil |
| D/ D THE D | INVESTIGATION OF THE ATOMIC STRUCTURE OF VITREOUS MATERIALS FROM THE SYSTEM Ag-Ge-As-S CONTAINING CARBON NANOTUBES USING FRAGMENTARY MODEL |
| B6-P-TUE-P | Mr. Kirill Kurochka ¹ , Dr. Nina Melnikova ¹ , Ms. Vasilisa Zaikova ¹ , Dr. Olga Kheifets ¹ 1Ural Federal University, Ekaterinburg, Russian Federation |
| | NOVEL ALUMINIUM/BASALT METAL MATRIX COMPOSITES FOR OFFSHORE RENEWABLE ENERGY APPLICATIONS |
| B6-P-TUE-P | Dr. Nilam Barekar ¹ , Mr Onuh Adole ¹ , Dr. Lorna Anguilano ¹ , Dr. Aleksander Novitskyi ² , Dr. Thimoty Minton ¹ , Dr. Brian McKay ¹ Dr Nilam Barekar ¹ , Mr Onuh Adole ¹ , Dr Lorna Anguilano ¹ , Dr Aleksander Novitskyi ² , Dr Thimoty Minton ¹ , Dr Brian McKay ¹ |
| | THE MODIFICATION OF ELECTRICAL AND ELECTROCHEMICAL PROPERTIES OF ALUMINIUM—CARBON FIBRE REINFORCED COMPOSITE LAMINATES BY THE INSULATING INTERLAYERS |
| B6-P-TUE-P | 1-16 Professor Barbara Surowska ¹ , Doctor Monika Ostapiuk ² |
| | ¹Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland, ²Lublin University of Technology, Faculty of Mechanical Engineering, Lublin, Poland |
| | DEFORMATION TEXTURES OF ALUMINUM IN MULTILAYERED AL/BRASS COMPOSITE SEVERELY DEFORMED BY ACCUMULATIVE ROLL BONDING |
| B6-P-TUE-P | 1-17 Mr Majid Naseri¹, Dr Mohsen Reihanian¹, <u>Dr Ehsan Borhani</u> ² |
| | ¹ Department of Materials Science and Engineering, Faculty of Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Iran , ² Department of Nano Technology, Nano Materials Group, Semnan University, Semnan, Iran |
| B6-P-TUE-P1-18 | SYNTHESIS AND CHARACTERIZATION OF CeO2/SnO2 THIN FILMS COMPOSITES FOR APPLICATION |
| | 1–18 Assoc. Prof. Gehan El Komy Abd El Galeel ¹ , Prof. Zainab El Mandouh ¹ , Prof. Massarat Seddik ¹ ¹ National Research Centre Cairo-dokki, Cairo, Egypt, ² National research center, Cairo, Egypt, ³ University Collage of Women for Arts, Science and Education Ain Shams University, Cairo, Egypt |
| | DEVELOPMENT AND CHARACTERISATION OF HYBRID EPOXY/PU DYNAMIC THERMOSET COMPOSITES WITH ENHANCED IMPACT RESISTANCE |
| B6-P-TUE-P1-19 | Dr. Jon Aurrekoetxea ³ , Dr. Nerea Markaide ² , Professor Monica Ferraris ¹ |
| | ¹Politecnico di Torino, Turin, Italy, ²IK4-CIDETEC, San Sebastian, Spain, ³Mondragon University, Arrasate - Mondragon, Spain |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 | | |
|------------------------------------|---|--|--|
| P1 | Tuesday, September 19, 2017 | | |
| Symposium B.6: Advanced Composites | | | |
| | MICROSTRUCTURE AND MECHANICAL CHARACTERIZATION OF AI/HEAP COMPOSITES | | |
| B6-P-TUE-P1-20 | eng. PhD univ. prof. loan Carcea ¹ , eng. PhD univ. assit. Raluca Maria Florea ¹ , PhD student Laura Asavei ¹ , Scientific Research Vasile Soare ² , eng. PhD univ. prof. Romeu Chelariu ¹ 1'Gheorghe Ascahi' Technical University of Iasi, Department of Materials Science and Engineering, Iasi, Romania, 2'Research and Development National Institute for Nonferrous and Rare Materials, Ilfov, Romania | | |
| | THERMAL FATIGUE BEHAVIOUR OF COPPER BASED COMPOSITE FOR POWER ELECTRONICS | | |
| B6-P-TUE-P1-21 | Hiba Fekiri ¹ , Vladimir A. Esin ¹ , Vincent Maurel ¹ , Alain Köster ¹ , Yves Bienvenu ¹ 'MINES Paristech, PSL Research University, France | | |
| B6-P-TUE-P1-22 | MICROWAVE DIELECTRIC PROPERTIES OF POLYIMIDE COMPOSITE FILMS CONTAINING TIO2 NANOTUBES | | |
| D0-F-10E-F1-22 | <u>Dr. Marius Andrei Olariu</u> ¹ , Dr. Corneliu Hamciuc ² , Dr. Elena Hamciuc ² ¹Technical University of Iasi, Iasi, Romania, ²"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania | | |
| | INVESTIGATION OF ELECTROCHEMICAL BEHAVIOUR OF GRAPHENE NANO PLATELET (GNP) REINFORCED ALUMINUM MATRIX COMPOSITES | | |
| B6-P-TUE-P1-23 | Res. Assist. Burak Kücükelyas ^{1,2} , Res. Assist. Cantekin Kaykılarlı ^{1,3} , Asst. Prof. Dr. Nazlı Akçamlı ^{1,2} , Prof. Dr. Deniz Uzunsoy¹ ¹Bursa Technical University, Faculty of Natural Sciences, Architecture and Engineering, Department of Metallurgical and Materials Engineering, Bursa, Turkey, ²İstanbul Technical University, Faculty of Chemical and Metallurgical Engineering, Department of Metallurgical and Materials Engineering, İstanbul, Turkey, ³Yıldız Technical University, Faculty of Chemical and Metallurgical Engineering, Department of Metallurgical and Materials Engineering, İstanbul, Turkey | | |
| D/ D THE D1 0/ | ESTIMATION OF THE DAMAGE LEVEL OF A COMPOSITE BY THERMAL CHARACTERIZATION AND SOURCE ESTIMATION | | |
| B6-P-TUE-P1-24 | Mr Anthony Castillo ¹ , Mr Jean-Laurent Gardarein ¹ , Mr Fabrice Rigollet ¹ , Mr Christophe Le Niliot ¹ 'Iusti Lab / Aix-marseille University, Marseille, France | | |
| | SOFT MAGNETIC COMPOSITE BASED ON FeSi POWDER INSULATED BY MODIFIED PHENOLIC RESIN | | |
| B6-P-TUE-P1-25 | Phd Magdalena Streckova¹, Maria Faberova¹, Dr. Radovan Bures¹, Dr. Jan Fuzer², Pavol Kurek¹, Dr. Erika Mudra¹ | | |
| | ¹ Institute of Materials Research, Slovak Academy of Sciences, Watsonova 47, 04 0 01 Kosice, Slovak Republic, Kosice, Slova-kia, ² Institute of Physics, Faculty of Science P. J. Šafárik University, Park Angelinum 9, 040 01 Košice, Slovak Republic, Kosice, Slovakia | | |
| | BIOSORPTION OF LOPERAMIDE FROM WATER BY LAGENARIA VULGARIS SHELL CHEMICALLY MODIFIED WITH AI203: KINETIC AND ISOTHERMS STUDIES | | |
| B6-P-TUE-P1-26 | Nena Velinov ¹ , Slobodan Najdanović ¹ , Miljana Radović ¹ , Jelena Mitrović ¹ , Miloš Kostić ¹ , Danijela Bojić ¹ , Aleksandar Bojić ¹ **Department of Chemistry, Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia, Serbia | | |
| | SPARK PLASMA SINTERING OF BETA-SIAION—BN COMPOSITES | | |
| B6-P-TUE-P1-27 | Ms. Evgeny Nefedova ¹ , Dr. Vladimir Goltsev ¹ , <u>Prof. Evgeny Grigoryev</u> ¹ , Dr. Konstantin Smirnov ² 'NRNU MEPhl, Moscow, Russian Federation, 'Institute of Structural Macrokinetics and Materials Science, Russian Academy of Sciences, Chernogolovka city, Moscow region, Russia | | |
| | MULTI-OBJECTIVE OPTIMIZATION IN DRILLING OF COMPOSITES USING TAGUCHI-BASED GREY RELATIONAL ANALYSIS | | |
| B6-P-TUE-P1-28 | Navid Zarif Karimi ¹ , Giangiacomo Minak ¹ ¹ University of Bologna, Department of Industrial Engineering DIN, Forlì, 47121, Italy, Forlì, 47121, Italy | | |
| B6-P-TUE-P1-29 | FABRICATION AND PERFORMANCE EVALUATION OF SELF-HEALING SYSTEM DEDICATED FOR GLASS FIBRE REINFORCED COMPOSITES | | |
| | PhD Eng Paulina Chabera ¹ , PhD Eng Rafał Kozera ¹ , PhD Eng Patryk Bolimowski ¹ , Prof Anna Boczkowska ¹ | | |
| | ¹Faculty Of Materials Science And Engineering, Warsaw University of Technology, Warsaw, Poland ADVANCE IN SINTERING THROUGH A COMBINATION OF NEW APPROACHES | | |
| | Maksim Boldin ² , Aleksandr Popov ² , Evgeny Lantsev ² , Aleksey Nokhrin ² , Vladimir Chuvil'deev ² , | | |
| B6-P-TUE-P1-30 | Ekaterina Potanina Nizhny Novgorod State University, Nizhny Novgorog, Russian Federation, Chational Research University), Research and Development Institute of Physics and Technology, Nizhny Novgorog, Russian Federation | | |
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| | TIME: 13:00–15:00 ROOM: FOYER, E1/M1 |
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| PI | Tuesday, September 19, 2017 |
| ГІ | Symposium B.6: Advanced Composites |
| | PREPARATION AND CHARACTERIZATION OF CARBON/EPOXY COMPOSITES WITH NEEDLE PUNCHED CARBON FIBERS PREFORM |
| B6-P-TUE-P1-31 | SongHee Kang ¹ , ChunSoo Kim ¹ , WonGi Jo ¹ , KyoungSik Kim ² , SeungGoo Lee ¹ ¹ Chungnam National University, Daejeon, South Korea, 2Nexcoms co., Daejeon, South Korea |
| B6-P-TUE-P1-32 | INFLUENCE OF PHOSPHORIC ACID ON FLAME RETARDANCY AND INTERFACIAL ADHESION OF POLYKETONE/EPOXY COMPOSITES |
| | Hani Jo ¹ , Jee-Woo Yang ¹ , Hyeon Soo Lim ¹ , Woojin Oh ¹ , Seung Goo Lee ¹ ¹ Chungnam zNational University, Daejeon, South Korea |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
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| Pl | Tuesday, September 1 | 9, 2017 | |
| | ymposium B.10: Fatigue, Wear and Corrosion | of Materials and | Structures |
| | EXPERIMENTAL AND COMPUTATIONAL STUDIES ON THE CO HISTAMINE AND ITS NEW DERIVATIVE OF HSmD1 FOR MILD | | |
| B10-P-TUE-P1-1 | Researcher Lasnouni Touafri ¹ , Doctor Abdelkader Hella Prof. Abdelaziz Kadri ³ | l ¹ , Prof. Salah Chafaa ² | 2 |
| | ¹ University of Khemis Miliana, Algeria, ² University of Setif, Algeria, ³ University of Setif, ⁴ Univer | rsity of Tizi Ouzou, Algeria | |
| | ANALYTICAL MODELING OF THE RESPONSE OF CIRCULAR S GLARE FIBER-METAL LAMINATES UNDER FRICTIONLESS O | | |
| B10-P-TUE-P1-2 | Dr. George Bikakis¹, Prof. DrIng Alexander Savaidis ¹ | | |
| | ¹ Department Of Mechanical Engineering Educators, Athens, Greece | | |
| | IMPACT OF PLATE RADIUS AND DIFFERENT BOUNDARY COI OF CIRCULAR GLARE FIBER-METAL LAMINATES UNDER FR | | |
| B10-P-TUE-P1-3 | Dr. George Bikakis ¹ , Prof. DrIng Alexander Savaidis ¹ | | |
| | ¹ Department Of Mechanical Engineering Educators, Athens, Greece | | |
| D40 D THE D4 / | CHARACTERIZATION OF MICROSTRUCTURE, MECHANICAL P CORROSION RESISTANCE OF LEAN DUPLEX STAINLESS STE | | |
| B10-P-TUE-P1-4 | Naima Ouali ¹ , Dr. Khadidja Khenfer ² , Brahim Belkessa ¹ | | |
| | Research Center In Industrial Technologies, Algeria, ² LGSM, USTHB, Univ | ersity of Algiers, Algeria | |
| | FATIGUE BEHAVIOUR OF INDUSTRIAL RUBBER BLENDS AN | D RUBBER-TEXTILE CO | OMPOSITES |
| B10-P-TUE-P1-5 | Sandra Seichter¹, Prof. Vasiliki-Maria Archodoulaki ¹, Dr. Armin Holzner², Alfred Wondracek² | r. Thomas Koch ¹ , | |
| | ¹TU Wien, Vienna, Austria, ²Semperit Technische Produkte Gesellschaft m | .b.H., Wimpassing, Austria | |
| B10-P-TUE-P1-6 | THE EFFECT OF MN ADDITIONS ON MICROSTRUCTURE AND BEHAVIOR OF NEW WROUGHT Mg-5Al-xMn ALLOYS | CORROSION | |
| | Polina Metalnikov ^{1,2} , Guy Ben-Hamu ² | | |
| | ¹ Department of Material Engineering, Ben-Gurion University of the Negev ² Department of Mechanical Engineering, Sami Shamoon College of Engin | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| Pl 📕 | Tuesday, September 19, 2017 |
| S | ymposium B.10: Fatigue, Wear and Corrosion of Materials and Structures |
| B10-P-TUE-P1-7 | IMPROVED CONCEPTS FOR THE PREDICTION OF FATIGUE LIFETIME UNDER VARIABLE AMPLITUDE THERMOMECHANICAL LOADING OF WELDED JOINTS OF X6CrNiNb18-10 |
| | Sophie Schackert ¹ , Dr. Christoph Schweizer ¹ , Dr. Gerhard Maier ¹ |
| | ¹ Fraunhofer Institute for Mechanics of Materials IWM, Freiburg im Breisgau, Germany |
| | HIGH-TEMPERATURE CORROSION OF REFRACTORY SYSTEMS USED IN FUEL CATALYTIC CONVERTER UNITS IN OIZL REFINERIES |
| B10-P-TUE-P1-8 | Prof. Greq Haidemenopoulos ¹ , Dr Anna Zervaki ² , Mr Ioannis Altanis ³ , Mr Panagiotis Dimitriadis ³ ¹ Department of Mechanical Engineering, Khalifa University, UAE, ² University Of Thessaly, Volos, Greece, ³ Motor Oil Hellas, Corinth Refineries, Corinth, Greece |
| | DISCUSSION ON THE EFFICIENCY OF DIFFERENT CERAMIC REINFORCEMENTS ON THE WEAR RESISTANCE IMPROVEMENT OF DIFFERENT METALLIC AND INTERMETALLIC MATRICES |
| B10-P-TUE-P1-9 | <u>Dr. Konstantinos Lentzaris</u> ¹, Dipl.Eng. Kyriaki Tsirka¹, Dipl. Eng. Penelope Triantafyllou¹, Dipl. Eng. Eleni Karapanou¹, Dipl. Eng. Alexander Evangelou¹, Dr. Angela Lekatou¹, Dipl. Eng Emmanuel Georgatis¹, Dr. Alexander Karantzalis¹ ¹University Of Ioannina, Ioannina, Greece |
| | COMPARISON OF ENGINE OIL TYPES ON THE PISTON-CYLINDER WEAR |
| B10-P-TUE-P1-10 | Mr. Hakan Yilmaz ^{1,2} , Dr. Arzu Sencan Sahin ² |
| | ¹Istanbul University, Vocational School of Technical Sciences, Dept. of Mechanical and Metal Technologies, Istanbul, Turkey, ² Suleyman Demirel University, Faculty of Technology, Dept. of Energy Systems Engineering, Isparta, Turkey |
| | HYDROGEN EFFECTS ON FATIGUE BEHAVIOR OF 18%Cr FERRITIC STAINLESS STEEL |
| B10-P-TUE-P1-11 | Evgenii Malitckii ¹ , Yuriy Yagodzinskyy ¹ , Heikki Remes ¹ , Hannu Hänninen 'Aalto University, Espoo, Finland |
| | CORROSION FATIGUE OF DUPLEX STAINLESS STEEL X2CrNimoN22-5-3 EXPOSED TO THE GEOTHERMAL ENVIRONMENT OF THE NORTHERN GERMAN BASIN UNDER DIFFERENT APPLIED POTENTIALS UND DIFFERENT SURFACE FINISH |
| B10-P-TUE-P1-12 | M.sc. Marcus Wolf ¹ , B.Sc. Roman Afanasiev ¹ , Prof. Dr. Thomas Boellinghaus ¹ , Prof. Dr. Anja Pfennig ² 18am - Federal Institute For Materials Research And Testing, Berlin, Germany, |
| | ² HTW University of Applied Sciences, Berlin, Germany |
| | CRITICAL VALUE OF FORGEABILITY ESTIMATION IN HOT FORGING CONDITIONS WITH AID OF STRAIN CONCENTRATION ANALYSIS BY DIC SYSTEM |
| B10-P-TUE-P1-13 | MSc., Eng. Łukasz Lisiecki ¹ , PhD. Piotr Skubisz ¹ , MSc. Eng. Paulina Lisiecka-Graca ¹ ¹ AGH University of Science and Technology, Kraków, Poland |
| | EFFECTS OF MICROWAVE TREATMENT ON THE PROPERTIES OF NBR AND EPDM RUBBER |
| B10-P-TUE-P1-14 | Seobin Eom ¹ , Sun Young Lee ¹ , Sun Woong Koo, Chun Soo Kim ¹ , Seung Gu Lee ¹ 1Chungnam National University, Dajeon, South Korea |
| B10-P-TUE-P1-15 | SINGLE CRYSTALLINE SI WAFERS SLICED BY ELECTRICAL DISCHARGE ON MULTI-WIRES FOR PHOTOVOLTAIC APPLICATIONS |
| | Dr Boyun Jang¹ ¹Korea Institute Of Energy Research, Daejeon, South Korea |
| | EQUIVALENT CONSTRAINTS TO THERMOMECHANICAL FATIGUE OCCURRING ON DIESEL ENGINES |
| B10-P-TUE-P1-16 | E.A. Lopez-Covaleda ¹ , S. Ghodrat ² , L.A.I. Kestens ³ ¹Ph.D student. Department of Materials Science and Engineering, Ghent University, Technologiepark 903, B-9052 Zwijnaarde, Ghent, Belgium, ²Ph.D. Researcher Department of Materials Science and Engineering, Delft University of Technology, Mekelweg 2, 2628 CD, Delft, The Netherlands, ³Full Professor. Department of Materials Science and Engineering, Ghent University, Technologiepark 903, B-9052 Zwijnaarde, Ghent, Belgium |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
|-----------------|---|-----------------------------|----------------------------|
| Pl | Tuesday, September 19 | 9, 201 <i>7</i> | |
| | Symposium B.11: Mechanical Properties | and Microstruct | ure |
| B11-P-TUE-P1-1 | PRECIPITATION CORRELATION BETWEEN MC CARBIDE AND IN A TP347H AUSTENITIC STAINLESS STEEL | Nb-RICH M2P PHOSP | HIDE |
| | Chang Wan Hong ¹ ¹ Gift, Postech, 77 Cheongam-Ro, Nam-Gu, Pohang, Republic of Korea | | |
| | MICROSTUCTURAL ANALYSIS OF CAST PARTS MANUFACTUR PHASES AND DEFECTS ASSESSMENT ACCORDING TO GRIFF | | |
| B11-P-TUE-P1-2 | PhD Ana Pastor ¹ , <u>PhD Pilar Valles</u> ¹ , PhD Sebastián F. Medin ¹ INTA, Torrejón de Ardoz, Spain, ² CENIM-CSIC, Madrid, Spain | na² | |
| | EFFECT OF SILICON ON THE HALL-PETCH RELATION IN FER | RITIC IRON | |
| B11-P-TUE-P1-3 | Kentaro Hirata ¹ , Fulin Jiang ² , Setsuo Takaki ^{2,3} , Daichi Aka ¹ Nisshin Steel Corporation Ltd., ² Department of Materials Science and Eng for Carbon Neutral Energy Research (WPI-I2CNER), Kyushu University | | |
| | NANOINDENTATION AND DILATOMETRIC TESTING OF SYNTH | IETICALLY PREPARED | CaCO3 |
| B11-P-TUE-P1-4 | Dr. Radek Ševčík¹, Dr. Petr Šašek¹, Dr. Alberto Viani¹ | | |
| | ¹Institute of Theoretical And Applied Mechanics As Cr, v. v. i., Centre of Exce | | |
| | ELASTIC MODULUS DEGRADATION TECHNIQUE FOR DAMAGI MEASUREMENT IN A DUAL PHASE STEEL | <u> </u> | |
| B11-P-TUE-P1-5 | MSc. Mechanical Engineering Diego Fernando Avendaño I PhD Rodolfo Rodríguez Baracaldo ¹ , PhD Lais Mujica Ron | | |
| | ¹ Universidad Nacional de Colombia, Bogotá, Colombia, ² Universidad Peda Tecnológica de Colombia, Tunja, Colombia | gógica y | |
| | EFFECT OF FILLER WIRE AND ARTIFICIAL AGEING CONDITION PERFORMANCE OF (Al-Cu-Li) 2198 ALUMINUM ALLOY | INS ON THE TENSILE | MECHANICAL |
| B11-P-TUE-P1-6 | Mr. Dimitris Karanikolas ¹ , Dr. Nikolai Kashaev ² , Mr. Stefa Prof. Nikolaos Alexopoulos ¹ | | ohin Enz², |
| | ¹ University of the Aegean, Department of Financial and Management Engin ² Helmholtz-Zentrum Geesthacht, Institute of Materials Research, Geesthach | | |
| | ON THE CYCLIC BEHAVIOR OF A SMART JOINT | | |
| B11-P-TUE-P1-7 | Mr. Gorkem Simsek ¹ , Mr. Ali Vahidyeganeh ¹ , Prof. G. Guve | en Yapici¹ | |
| | COMPARATIVE ANALYSIS OF THE MECHANICAL PROPERTIES | COETHE MIC / MACT | IIRIII AR WEI DING |
| | PROCESS (GMAW) IN STEEL 1020 FOR BAJA VEHICLE STRUC | | OBOLAR WELDING |
| B11-P-TUE-P1-8 | Undergraduating Alaí S. Machado¹, <u>Undergraduating Gean</u> Marcus Rodrigues¹, Undergraduating Francisco Sousa¹, U | Indergraduating Carl | ergraduating os Araújo¹ |
| | ¹Instituto Federal De Educação, Ciência E Tecnologia Do Piauí, Teresina, Br ²Instituto Federal De Educação, Ciência E Tecnologia Do Piauí, Teresina, Br | | |
| B11-P-TUE-P1-9 | EXPERIMENTAL EVALUATION OF THE EFFECTS OF FREE THE AND CRACK PROPAGATION OF AN AISI 1045 STEEL | RMAL FATIGUE ON TH | IE MICROSTRUCTURE |
| | Doctor Ayrton de Sá Brandim¹, Doctor Mário Alberto Sim Cavalcante¹, Rafaela Patrícia Mendes de Araújo¹, Sérgio A | Alves da Silva ¹ | a De Araujo Fortes |
| | ¹Instituto Federal Do Piauí, Teresina, Brazil, ²Universidade Federal do Espir | | |
| B11-P-TUE-P1-10 | DEVELOPMENT OF BETA-PHASE BRASS FOR MECHANICAL F | PROPERTIES | |
| DII-Y-IUE-YI-IU | <u>Dr. Hyo-Soo Lee</u> ¹ , Mr. Jae-Ha Kim ¹ 'Kitech, Incheon, South Korea | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|-----------------|---|
| D1 | Tuesday, September 19, 2017 |
| гі | Symposium B.11: Mechanical Properties and Microstructure |
| B11-P-TUE-P1-11 | HIERARCHICAL MODELLING & SIZE EFFECTS FOR COMPOSITES DESIGN & MANUFACTURING |
| | Dr. Alexios Papacharalampopoulos¹, Mr. Panagis Foteinopoulos ¹, Dr. Konstantinos Anyfantis¹, Dr. Panagiotis Stavropoulos¹, Dr. George Chryssolouris¹ 'Laboratory For Manufacturing Systems & Automation, Greece |
| | MICROSTRUCTURAL CHANGES OF FATIGUE DAMAGE IN AUSTENITIC STAINLESS STEEL |
| B11-P-TUE-P1-12 | Dr. Yoshihisa Harada ^{1,2} , Dr. Takashi Nagoshi ¹ , Mr. Yosuke Inoue ² , Mr. Tomoya Senda ² , Dr. Brian O'Rourke ¹ , Dr. Nagayasu Oshima+ 'National Institute Of Advanced Industrial Science And Technology (aist), Tsukuba, Japan, ² University of Tsukuba, Tsukuba, Japan |
| | CHARACTERIZATION OF FeCOV ALLOY PROCESSED BY PIM (MIM) ROUTE |
| B11-P-TUE-P1-14 | Borivoje Nedeljkovic ¹ , Nebojsa Mitrovic ¹ , Jelena Orelj ¹ , Nina Obradovic ² ¹ Faculty of Technical Sciences Cacak, Svetog Save 65, Serbia, ² Institute of Technical Sciences of SASA, Knez Mihailova 35, Serbia |
| | EFFECT OF THERMO-MECHANICAL TREATMENT OF EXTRUDED Z1 Mg ALLOY ON RESULTING MECHANICAL PROPERTIES |
| B11-P-TUE-P1-15 | <u>Štefan Csáki</u> ¹ , Daria Drozdenko ¹ , Jan Bohlen ² , Sangbong Yi ² , Patrik Dobroň ¹ ¹Charles University, Department of Physics of Materials, Prague, Czech Republic, ²Helmholtz-Zentrum Geesthacht, Zentrum für Material- und Küstenforschung GmbH, Geesthacht, Germany |
| | MECHANICAL PROPERTIES OF THERMOSETTING MATERIAL MIXED WITH A VINYL POLYMER |
| B11-P-TUE-P1-16 | Eng Fabio Augusto Mesa Rueda¹, Eng Alneira Cuellar Burgos¹ |
| | 'Laboratorio de Polimeros y Materiales Compuestos, Universidad Nacional De Colombia, Manizales, Colombia |
| | IN OPERANDO NANOMECHANICAL TESTING |
| B11-P-TUE-P1-17 | S.A. Syed Asif1, Oden Warren ¹ Sanjit Bhowmick ¹ , Eric Hintsala ¹ , |
| | ¹Bruker, Eden Prairie, United States |
| | STUDY OF CREEP AND RELAXATION BY INDENTATION OF CHROMIUM-BASED STEELS |
| B11-P-TUE-P1-18 | Philemon Nogning Kamta ¹ , Didier Chicot ¹ , Francine Roudet ¹ , Matthieu Touzin ² , Ghislain Louis ³ 'University of Lille 1, FRE 3723-LML-Laboratoire de Mécanique de Lille, Villeneuve D'ascq, France, ² University of Lille 1, CNRS, INRA, ENSCL, UMR 8207 - UMET - Unité Matériaux et Transformations, F-59000, Lille, France, ³ Mines Douai, LGCgE, Douai, France |
| | INFLUENCE OF HARMONIC STRUCTURE DESIGN ON DEFORMATION BEHAVIOUR IN A Ti-25Nb-25Zr ALLOY |
| B11-P-TUE-P1-19 | <u>Daiki Nanya</u> ¹, Daiki Ueda¹, Sanjay Kumar Vajpai², Mie Kawabata Ota³, Guy Dirras⁴, Kei Ameyama³ |
| | 'Graduate school of Science and Engineering, Department of Mechanical Engineering, Ritsumeikan University, 1-1-1 Noji-Higashi, Kusatsu city, Japan, 'Department of Material Science and Metallurgical Engineering, Maulana Azad National Institute of Technology, India, Link Road Number 3, Near Kali Mata Mandir, Bhopal, India, 'Collage of Science and Engineering, Department of Mechanical Engineering, Ritsumeikan University, 1-1-1 Noji-Higashi, Kusatsu city, Japan, 'Université Paris 13, Sorbonne Paris Cité, LSPM-CNRS, 99 Avenue Jean Baptiste Clément, 93430, France |
| | ANOMALOUS STRAIN HARDENING BEHAVIOR OF HARMONIC STRUCTURE DESIGNED NI |
| B11-P-TUE-P1-20 | Mr Masaya Nagata ¹ , Mr Naoki Horikawa ¹ , Mr Masashi Nakatani ¹ , Dr. Mie Ota ¹ , Prof. Kei Ameyama ¹ ¹Ritsumeikan University, 1-1-1 Noji-Higashi, Kusatsu, Japan |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
|------------------|--|
| DI | Tuesday, September 19, 2017 |
| PI - | Symposium C.1-I: Coatings and Surface Modification Techniques /Part I |
| | ROLE OF POLYDOPAMINE AS A PRIMER FOR CATALYST COATING ON POLYURETHANE FOAMS |
| C1-I-P-TUE-P1-1 | Louis Lefebvre², Tatevik Chilingaryan¹, Pr. Pascal Fongarland¹, <u>Dr. Valérie Meille</u> ¹, Dr. David Edouard² |
| | ¹ LGPC-CNRS University of Lyon, Villeurbanne, France, ² LAGEP University of Lyon, Villeurbanne, France |
| | COATED FOAM DEEP CHARACTERIZATION USING X-RAY TOMOGRAPHY |
| C1-I-P-TUE-P1-2 | Stephanie Pallier ¹ , Marie Line Zanota ¹ , Joel Lachambre ² , Valérie Meille ¹ 1LGPC-CNRS University of Lyon, Villeurbanne, France, ² MATEIS-INSA University of Lyon, Villeurbanne, France |
| | NEW OPTICAL ADHESIVE RELIABILITY EVALUATION FOR SILICON PHOTONICS |
| C1-I-P-TUE-P1-3 | Prof. Seiko Mitachi ¹ , Mr. Yutaro Togashi ¹ , Mr. Yuuichi Kageyama ² , Mr. Kazushi Kimura ² ¹ Tokyo Universty of Technology, 1404-1 Katakura, Hachioji, Tokyo, Japan, ² The Yokohama Rubber Co. Ltd., 2-1 Oiwake, Hiratshuka, Kanagawa, Japan |
| | MULTISCALE CHARACTERIZATION OF THE BIO-TRIBOLOGICAL AMORPHOUS CARBON COATINGS (a-C:H) IMPLANTED BY METALLIC NANO-PARTICLES |
| C1-I-P-TUE-P1-4 | M. Sc. Eng. Marta Janusz ¹ , Proffesor Jurgen. M. Lackner ² , Proffesor Marcin Kot ³ , Proffesor Łukasz Major ¹ |
| | ¹ Institute of Metallurgy and Materials Science; PAS, Cracow, Poland, ² Joanneum Research-Materials-Institute for Surface Technologies and Photonics, Niklasdorf, Austria, ³ AGH University of Science and Technology, Cracow, Poland |
| | BIO-COMPATIBILE, WEAR RESISTANT, DECORATIVE COATINGS FOR BIOLOGICAL, CORROSIVE FLUIDS INTERACTION |
| C1-I-P-TUE-P1-5 | Aleksandra Kupczyk¹, Prof. Juergen M. Lackner², Prof. Marcin Kot³, Prof. Lukasz Major¹ ¹Institute Of Metallurgy and Materials Science PAS, Krakow, Poland, ³JOANNEUM RESEARCH -Materials, Institute for Surface Technologies and Photonics, Niklasdorf, Austria, ³Laboratory of Surface Engineering and Tribology, Faculty of Mechanical Engineering and Robotics, AGH University of Science and Technology, Krakow, Poland |
| | THE MICROSTRUCTURE OF WELD OVERLAY NI-BASE ALLOY DEPOSITED ON CARBON STEEL BY LASER QS-Nd:YAG |
| C1-I-P-TUE-P1-6 | Msc. Eng. Damian Koclega ¹ , PhD Eng. Agnieszka Radziszewska ¹ , Prof. Axel Kranzmann ² , Prof. Stanisław Dymek ¹ , PhD Eng. Sławomir Kąc ¹ |
| | 'Agh University Of Science And Technology, Cracow, Poland, ² Federal Institute for Materials Research and Testing, BAM, Berlin, Germany |
| | CHARACTERISTIC OF LaCo03 THIN LAYERS MADE BY PLD FOR APPLICATION TO NOx GAS SENSOR |
| C1-I-P-TUE-P1-7 | Msc. Eng. Mateusz Jędrusik¹, PhD. Eng Łukasz Cienień, PhD Eng. Agnieszka Kopia¹, PhD Eng. Christian Turquat², Prof. Chritine Leroux² |
| | ¹AGH - UST, WIMIIP, Kraków, Poland, ²2Université de Toulon, CNRS, IM2NP UMR , La Garde, France BORONIZING OF Ti–AL ALLOYS USING THE PASTE METHOD |
| C1-I-P-TUE-P1-8 | WITH AN OPTIMIZED SLURRY OF AMORPHOUS BORON NANOPARTICLES |
| | Mr Zagkliveris Dimitrios ¹ , Dr. Dimitrios Tsipas ¹ , Dr. Georgios Triantafyllidis ¹ 'Aristotle University Of Thessaloniki, Thessaloniki, Greece |
| C1-I-P-TUE-P1-9 | GASEOUS NITRIDING OF IRON WHISKERS |
| | Helge Schumann ¹ , Dr. Gunther Richter ² , Prof. Dr. rer. nat. habil. Andreas Leineweber ¹ 1Technische Universität Bergakademie Freiberg, Institute of Materials Science, 09599 Freiberg, Germany, 2Max Planck Institute for Intelligent Systems, 70569 Stuttgart, Germany |
| | ASSESSMENT OF THE POSSIBILITY TO IMPROVE WORKING LIFE OF THE SHAPING TOOLS IN THE CONFORM EXTRUSION PROCESS |
| C1-I-P-TUE-P1-10 | Dr Eng. Barbara Juszczyk¹, Dr Eng. Joanna Kulasa¹, Dr hab. Eng. Krzysztof Lukaszkowicz², Agnieszka Paradecka², MSc Eng. Witold Malec¹, MSc Eng. Łukasz Wierzbicki¹, MSc Eng. Beata Cwolek¹, Dr Eng. Szymon Malara¹, MSc Eng. Jerzy Ilasz³ ¹Institute of Non-Ferrous Metals, The Department of Processing of Metals and Alloys, Gliwice, Poland, ²Silesian University of Technology, Institute of Engineering Materials and Biomaterials, Gliwice, Poland, ²Power Cable Company JSC, Będzin, Poland |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|------------------|---|
| P1 | Tuesday, September 19, 2017 |
| | Symposium C.1-I: Coatings and Surface Modification Techniques /Part I |
| | WEAR RESISTANT AND ELECTRICALLY CONDUCTIVE COMPOSITE COATINGS ON NON-FERROUS METAL SUBSTRATES |
| C1-I-P-TUE-P1-11 | Dr Eng. Joanna Kulasa ¹ , Dr Eng. Barbara Juszczyk ¹ , Dr Eng. Jaroslav Kováčik ² , Assoc. Prof., Dr. Stefan Emmer ² , Dr Eng. Szymon Malara ¹ , MSc Eng. Witold Malec ¹ , MSc Eng. Marcin Lis ³ *Institute of Non-Ferrous Metals, The Department of Processing of Metals and Alloys, Gliwice, Poland, *Integrovaný výskum materiálov a ich aplikácií STU s.r.o, Bratislava, Slovakia, 3Institute of Non-Ferrous Metals, The Department of Powder and Composite Materials, Gliwice, Poland |
| | MECHANICAL PROPERTIES AND THERMAL BEHAVIOR OF Zr(-Hf)-Cu THIN-FILM METALLIC GLASSES |
| C1-I-P-TUE-P1-12 | Michal Zitek ¹ , Petr Zeman ¹ , Sarka Zuzjakova ¹ , Radomir Cerstvy ¹ , <u>Stanislav Haviar</u> ¹ , Michaela Kotrlova ¹ ¹ Department of Physics and NTIS – European Centre of Excellence, University of West Bohemia, Plzen, Czech Republic |
| | SELECTIVE ELECTRON-BEAM ALLOYING OF ALUMINIUM WITH VANADIUM |
| C1-I-P-TUE-P1-13 | MSc degree Stefan Valkov ¹ , DSc Peter Petrov ¹ , Dr Ruslan Bezdushnyi ² , Dr Rumiana Lazarova ³ ¹ Institute Of Electronics "akad. E. Djakov" - Bulgarian Academy Of Sciences, 1784 Sofia, Bulgaria, ² Faculty of Physics, Sofia University 'St Kliment Ohridski", 1164 Sofia, Bulgaria, 3Institute of Metal Science, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria |
| | THERMAL STABILITY AND MECHANICAL PROPERTIES OF TIAIN/VN NANO-MULTILAYER FILMS |
| C1-I-P-TUE-P1-14 | Ph.D. Jianling Yue ¹ |
| | Central South University, Changsha, China FORMATION AND STRUCTURE OF TIN/ZrN MULTILAYER COATINGS DEPOSITED ON TOOL STEEL |
| C1-I-P-TUE-P1-15 | Stefan Valkov ¹ , Dimitar Dechev ¹ , Nikolay Ivanov ¹ , Maria Ormanova ¹ , Ruslan Bezdushnyi ² , Peter Petrov ¹ *Institute Of Electronics "akad. E. Djakov" - Bulgarian Academy Of Sciences, Sofia, Bulgaria, |
| | ² Faculty of Physics, Sofia University 'St Kliment Ohridski", 1164 Sofia, Bulgaria |
| | ATOMIC LAYER DEPOSITION OF TIN OXIDE THIN FILMS USING TETRAETHYLTIN TO PRODUCE HIGH-CAPACITY LI-ION BATTERIES |
| C1-I-P-TUE-P1-16 | Denis Nazarov ^{1,2} , Maxim Maximov ² , Pavel Novikov ² , Anatoly Popovich ² , Aleksandr Rumyantsev ³ , Vladimir Smirnov ¹ |
| | 'Saint Petersburg State University, Saint-Petersburg, Russian Federation, ² Peter the Great Saint Petersburg Polytechnic University, Saint-Petersburg, Russian Federation, 31offe Institute, Saint-Petersburg, Russian Federation |
| | STRUCTURE AND PROPERTIES OF TiO2/Tin COATED EBM MODIFIED TI ALLOY FOR BIOMEDICAL APPLICATION |
| C1-I-P-TUE-P1-17 | Ch. Assistant, PhD Maria Nikolova ² , Prof., Dr. Sc. Peter Petrov ¹ , PhD student Stefan Valkov ¹ , Ch. Assistant, PhD Emil Yankov ² , PhD student Maria Ormanova ¹ , Prof. Milko Yordanov ³ , Ch. Assistant, PhD Vania Zaharieva ² , PhD student Desislava Tsanova-Tosheva ⁴ 'Institute Of Electronics "akad. E. Djakov" - Bulgarian Academy Of Sciences, Sofia, Bulgaria, ² Faculty of Mechanical and Manufacturing Engineering University of Ruse "Angel Kanchev", Ruse, Bulgaria, ³ Faculty of Engineering and Pedagogy of Sliven, |
| C1-I-P-TUE-P1-18 | Technical University of Sofia, Sliven, Bulgaria, ⁴ Faculty of Dental Medicine, Medical University of Sofia, Sofia, Bulgaria A TUBE (INTERCONNECTION UNDER UHV OF CHAMBERS FOR ELABORATION, AND CHARACTERIZATION FOR NOVEL MATERIALS) FOR MULTI-MATERIAL GROWTH AND MULTI-TECHNIC CHARACTERIZATION UNDER ULTRA HIGH VACUUM |
| 01111021110 | Maud Jullien ¹ , Stéphane Mangin, Danielle Pierre ¹ Institut Jean Lamour, Nancy, France |
| C1-I-P-TUE-P1-19 | ANALISIS OF PLASMA NITRIDING PARAMETERS APPLIED IN HIGH SPEED STEEL CUTTING TOOLS |
| | <u>Undergraduating Marcus Rodriques</u> ¹ , Undergraduating Iverton Farias ¹ , Master Degree Armystron Araújo ^{1,2} 'Instituto Federal de Educação, Ciência e Tecnologia Do Piauí, Teresina, Brazil, ² Universidade Federal do Piauí, Teresina, Brazil |
| | DEPOSITION AND INVESTIGATION OF RESISTANT AL/NI COATINGS DEPOSITED BY PACK CEMENTATION |
| C1-I-P-TUE-P1-20 | MSc Dimitra Kourtidou ¹ , Dr. Dimitrios Chaliampalias ¹ , PhD Dimitrios Karfaridis ¹ , PhD Christos Vogiatzis ¹ , Dr. Eleni Pavlidou ¹ , Dr. Stefanos Skolianos ¹ , Dr. Konstantinos Chrissafis ¹ , Dr. George Vourlias ¹ 'Aristotle University Of Thessaloniki, Thessaloniki, Greece |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|----------------|---|
| Pl | Tuesday, September 19, 2017 |
| PI | Symposium C.2: Laser-based processing and manufacturing |
| | LASER PROCESSING OF THIN-FILM A-SI AS AN ABSORBER MATERIAL FOR ALTERNATIVE LOW-COST SILICON PHOTOVOLTAIC TECHNOLOGY |
| C2-P-TUE-P1-1 | Sr Elías Saugar Gotor ¹ , Dr Susana María Fernández ¹ , Dr David Canteli ² , Sr Fernando García- Pérez ³ Dr Belén Gómez-Mancebo ³ , Dr Julio Cárabe ¹ , Dr Jose Javier Gandía ¹ , Dr Miguel Morales ² , Dr Carlos Molpeceres ² |
| | ¹ Energy Department, CIEMAT, Madrid, Spain, ² Centro Láser, Universidad Politécnica de Madrid, Madrid, Spain, ³ Chemistry Division, CIEMAT, Madrid, Spain |
| | DEVELOPMENT OF AN Yb-BASED THIN DISK LASER SYSTEM USING AN INNOVATIVE PUMPING SCHEME |
| C2-P-TUE-P1-2 | Dr. Paulo J. Morais ¹ , Dr. Rui Pereira ¹ , Dr. Helena Gouveia ¹ , Margarida Pinto ¹ ISQ - Instituto de Soldadura e Qualidade, Av. Prof. Dr. Cavaco Silva 33, 2740-120 Porto Salvo, Portugal |
| | FABRICATING MUSHROOM-LIKE MICRO-PATTERNS IN MULTILAYERED RESISTS USING LASER INTERFERENCE LITHOGRAPHY |
| C2-P-TUE-P1-3 | <u>DiplIng. Florian Rößler</u> ¹ , DiplIng. Valentin Lang ^{1,2} , DrIng. Denise Günther ^{1,2} , Prof. DrIng. Andrés Fabián Lasagni ^{1,2} 1TU Dresden, Dresden, Germany, ² Fraunhofer IWS, Dresden, Germany |
| | EFFECTS OF LASER IRRADIATION ON THE COLD SPRAY DEPOSITION PROCESS |
| C2-P-TUE-P1-4 | Dr. Gemma Vara Salazar ¹ , Dr. Patricia López-Ruiz ¹ , Dr. MArio Diaz ¹ , Mr Rubén Creo ¹ , Dr. MArio Guagliano ² , Dr. Sarah Bagherifard ² |
| | ¹ IK4 CIDETEC, Surface Engineering Area, San Sebastián, Spain, ² Politecnico di Milano, Department of Mechanical Engineering, Milán, Italy |
| | INFLUENCE OF AN EXTERNAL ELECTRIC FIELD ON THE MORPHOLOGY OF NOBLE METAL NANOSTRUCTURES FABRICATED BY NANOSECOND LASER ABLATION IN WATER |
| C2-P-TUE-P1-5 | Dr. Anastas Nikolov ¹ , Dr. Ivajlo Balchev ¹ , Dr. Daniela Karashanova ² , Dsc Nikolay Nedyalkov ¹ , PhD student Stefan Valkov ¹ , Dsc Petar Petrov ¹ |
| | ¹ Institute of Electronics, Bulgarian Academy Of Sciences, Sofia, Bulgaria, ² Institute of Optical Materials and Technologies, Bulgarian Academy of Sciences, Sofia, Bulgaria |
| C2-P-TUE-P1-6 | ANALYTICAL APPROACH AND EXPERIMENTAL VALIDATION OF CEMENTED TUNGSTEN CARBIDE ULTRA-SHORT PULSE LASER ABLATION |
| 02 1 102 1 1 0 | M.Sc. Juan Pablo Calderon Urbina ¹ , Prof. DrIng. Claus Emmelmann ¹ 'Institute of Laser and System Technologies (iLAS) - Hamburg University of Technology (TUHH), Hamburg, Germany |
| | COMBINATION EFFECTS OF WATER AND EXCIMER LASER IRRADIATION ON A SET OF POLYMERS |
| C2-P-TUE-P1-7 | Dr. Ilham El Aboudi ¹ , A. Mdarhri ¹ , S. Lazare ² , L. Servant ² , M. Castillejo ³ ¹ Laboratoire de la Matière Condensée et des Nanostructures, Faculté des Sciences et Techniques de Marrakech, Université Cadi Ayyad, BP, Avenue Abdelkrim Elkettabi, 40000 Marrakech, Maroc, Marrakech, Morocco, ² Institut des Sciences Moléculaires (ISM) UMR 5255, Université Bordeaux 1, 351 cours de la Libération, 33405 Talence, France, Talence, France, ³ Instituto de Química Física Rocasolano, CSIC, Serrano 119, 28006 Madrid, Spain, Madrid, Spain |
| | DIRECT LASER TRANSFER AND LASER REDUCTION OF GRAPHENE OXIDE FOR CHEMICAL SENSORS AND ORGANIC ELECTRONICS APPLICATIONS |
| C2-P-TUE-P1-8 | Mr Simos Papazoglou², <u>Dr Konstantinos Petridis</u> ¹, Dr Maria Fillipidou³, Dr Stavros Chtzantroulis³, Dr Emannuel Kymakis⁴, Dr Ioanna Zergioti² ¹Technological Educational Institute Of Crete ,Chania, Greece, ²School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Athens, Greece, Heroon Polytechneiou 9, 157 80, Zografou/Athens, Greece, ³Institute of Nanoscience and Nanotechnology, E.K.E.F.E. Demokritos, Agia Paraskevi, 153 10/ Athens, Greece, *Center of Materials Technology & Photonics, Department of Electrical Engineering, Technological Educational Institute of Crete, Estavromenos, Heraklion, Crete, Greece, Estavromenos / Heraklion, Greece |
| C2-P-TUE-P1-9 | SHELLAC THIN FILMS PATTERNS PREPARED BY LIFT FOR ORGANIC TRANSISTOR TECHNOLOGIES |
| | PhD Andreea Matei ¹ , PhD Alexandra Palla Papavlu ¹ , PhD Mihaela Filipescu ¹ , PhD Student Valentina Marascu ¹ , PhD Maria Dinescu ¹ 'National Institute For Lasers, Plasma And Radiation Physics, Romania |
| | LASER PROCESSING OF C-PPS AND C-PEEK CARBON FIBRE REINFORCED PLASTICS |
| C2-P-TUE-P1-10 | Petr Hauschwitz ^{1,2} , Dr. Danijela Rostohar ¹ , Petr Gavrilov ² , Dr Tomas Mocek ¹ ¹ Hilase, Dolni Brezani, Czech Republic, ² Faculty of Nuclear Science and Physical Engineering Czech Technical University, Prague, Czech Republic |
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| | TIME: 13:00–15:00 R00M: F0YER, E1/M1 |
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| P1 | Tuesday, September 19, 2017 |
| | Symposium C.2: Laser-based processing and manufacturing |
| | FEMTOSECOND LASER-INDUCED PLASMA DYNAMICS SIMULATIONS IN FUSED SILICA AND WATER |
| C2-P-TUE-P1-11 | Javier Hernandez Rueda ¹ , Jasper Clarijs ¹ , Denise M. Krol ² , Dries van Oosten ¹ ¹ Universiteit Utrecht, Utrecht, Netherlands, ² University of California Davis, Davis, USA |
| C2-P-TUE-P1-12 | SCATTERING PROPERTIES OF GOLD NANOPARTICLES INSIDE A QUADRUPOLE ION TRAP DURING FS-LASER IRRADIATION |
| | Javier Hernandez Rueda ¹ , Anne de Beurs ¹ , Dries van Oosten ¹ ¹ Universiteit Utrecht, Utrecht, Netherlands |
| C2-P-TUE-P1-13 | STUDY AND SIMULATION OF LASER INDUCED FORWARD TRANSFER OF AG INKS |
| | A. Kalaitzis ¹ , I. Theodorakos ¹ , M. Makrygianni ¹ , A. Hatziapostolou ^{1,2} , I. Zergioti ¹ ¹ National Technical University of Athens, Physics Department, Iroon Polytehneiou 9, 15780, Zografou, Athens, Greece, ² Technological Educational Institute of Athens, Department of Energy Technology Engineering, Ag. Spyridinos 28, 12243, Aigaleo, Athens, Greece |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| DI | Tuesday, September 19, 2017 |
| PI — | Symposium C.6: Joining |
| | EFFECT OF BRAZING PROCESS PARAMETERS AND THE CONTENT OF PD ON THE GROWTH OF INTERMETALLIC PHASES IN THE JOINT TIALV / TICUZRPD / TIALV |
| C6-P-TUE-P1-1 | Ph.D. Anna Sypien ¹ , M.Sc. Kamil Badura ¹ , M.Sc Bogusz Kania ¹ 'Institute of Metallurgy and Materials Science, PAS, Krakow, Poland |
| | EFFECT OF WELDING PROCESS ON MICROSTRUCTURE AND MICRO HARDNESS OF ALUMINIUM JOINTS |
| C6-P-TUE-P1-2 | Researcher Hakem Maamar¹ ¹Research Center in Industrial Technoligies CRTI (Ex CSC), Cheraga. Algiers, Algeria |
| | MICROSTRUCTURAL AND CORROSION BEHAVIOUR OF SHIELDED METAL ARC WELDED DISSIMILAR WELDMENTS BETWEEN DUPLEX AND LOW ALLOY STEELS |
| C6-P-TUE-P1-3 | Brahim Belkessa ¹ , Pr. Djamel Miroud ² , Naima Ouali ¹ Research Center In Industrial Technologies, CRTI, Algeria, ² LGSM, USTHB, University of Algiers, Algeria |
| | COMPARISON OF THE PERFORMANCE OF AIRCRAFT REPAIR PATCHES CONSISTING OF RIVETED LAP JOINTS ON ALUMINIUM AND COMPOSITE SUBSTRATES |
| C6-P-TUE-P1-4 | Mr. Siddharth Pitta ¹ , <u>DrEng. Jose I. Rojas</u> ¹ , Prof. Daniel Crespo ² |
| | ¹ Department of Physics – Division of Aerospace Engineering, Universitat Politècnica de Catalunya, Castelldefels, Spain, ² Department of Physics, Universitat Politècnica de Catalunya, Castelldefels, Spain |
| | A METHODOLOGY TO CALCULATE DIFFUSION OF CARBON ACROSS THE BIMETALLIC BASE-CLAD INTERFACE OF WELDED OFFSHORE CLAD PIPES |
| C6-P-TUE-P1-5 | Senior Research Scientist Dag Lindholm ¹ |
| | ¹Institute For Energy Technology, Kjeller, Norway |
| A/ | CORRELATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES IN WELDED JOINTS OF 12MnNivr Pressure Vessel Steel Subjected to high heat input electrogas welding |
| C6-P-TUE-P1-6 | Yang Shen ¹ , Cong Wang ¹ 'School of Metallurgy, Northeastern University, Shenyang, China |
| 0/ D THE D4 II | EFFECTS TiO2 CONTENT ON INCLUSION AND MICROSTRUCTURE EVOLUTION OF WELDED EH36 SHIPBUILDING STEEL |
| C6-P-TUE-P1-7 | Ju Leng ¹ , Cong Wang ¹ 1School of Metallurgy, Northeastern University, Shenyang, China |
| | JOINING OF TIB2 CERAMIC WITH NIB ALLOY |
| C6-P-TUE-P1-8 | Lixia Xi¹, Ivan Kaban, Peng He², Natalia Sobczak³, Jürgen Eckert⁴ |
| | ¹IFW Dresden, Dresden, Germany, ²Harbin Institute of Technology, Harbin, China, ³Foundry Research Institute Cracow, Cracow, Poland, ⁴Erich Schmid Institute of Materials Science, Leoben, Austria |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| Pl Pl | Tuesday, September 19, 2017 |
| • • • | Symposium C.6: Joining |
| | SUGGESTION OF AN INDICATOR TO EVALUATE MATERIAL DEPOSITION IN RESISTANCE SPOT WELDING: WELD SURFACE INTERACTION INDEX |
| C6-P-TUE-P1-9 | Melih Kinagu¹, Dr. Cemil Günhan Erhuy², Mehmet Gökçe¹, Dr. Mustafa Mutlu¹, Fatih Ateş¹, Prof.Dr. Deniz Uzunsoy³ |
| | ¹ Ermetal Automotive, Bursa, Turkey, ² Barida Macine Industry, Bursa, Turkey, ³ Bursa Technical University, Bursa, Turkey |
| | CHARACTERIZATION OF FIBER LASER WELDED TC4/SS 304 JOINTS USING Cu INTERLAYER |
| C6-P-TUE-P1-10 | Seyed Reza Elmi Hosseini¹, Zhuguo Li, Yuan Chen, Da Shu ¹Shanghai Jiaotong University, Shanghai, China |
| | CA6NM STAINLESS STEEL SUBMITTED TO DIFFERENT THERMAL CYCLES IN THE GLEEBLE WELD SIMULATOR |
| C6-P-TUE-P1-11 | Phd Maria Ismenia Sodero Faria¹, Ms Bruna Giacchero Lima¹, |
| | Mrs Julio César Lourenço ¹ |
| | ¹University of São Paulo, Lorena, Brazil |
| | THE EFFECT OF ADDING THERMAL SPRAYED INTERLAYER IN BRAZING CERMET TO CARBON STEEL |
| C6-P-TUE-P1-12 | Mr Youcef Yahmi ¹ , Pr Djamel Miroud ² , Dr Bouzid Maamache ¹ , Mr Bellel Cheniti ¹ |
| | Research Center In Industrial Technologies Crti (ex Csc) Bp 64, Cheraga, Algeria, Faculty of Mechanical Engineering and Engineering Processes, University of Science and Technology Houari Boumediene, Bp 32 El Alia 16111, Bab Ezzouar, Algeria |
| C6-P-TUE-P1-13 | INFLUENCE OF WELDING TECHNIQUES ON MICROSTRUCTURE AND HARDNESS OF STEEL JOINTS USED IN AUTOMOTIVE AIR CONDITIONERS |
| | Piotr Noga ¹ , Łukasz Wzorek ¹ , Maria Richert ² , Marek Węglowski ³ , Patrycja Zimerska-Nowak ⁴ |
| | ¹AGH University of Science and Technology Faculty of Non-Ferrous Metals Krakow, Krakow, Poland, ²AGH University of Science and Technology Faculty of Management Krakow, Krakow, ³Welding Institute , Gliwice, Poland, ⁴Boryszew S.A, odział MAFLOW, Tychy, Polska |

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| PI | Tuesday, September 19, 2017 |
| PI — | Symposium D.1: Materials Science with Synchrotron Radiation X-rays |
| | ON THE MECHANISM OF THE Gan NANOCRYSTAL FORMATION IN SiO2 BY ION IMPLANTATION |
| D1-P-TUE-P1-1 | <u>Dr. Maria Katsikin</u> i ¹ , Dr. Kyriakos Filintoglou ¹ , Dr. Fani Pinakidou ¹ , Paul Kutza ² , Philip Lorenz ² , Prof. Dr. Elke Wendler ² , Dr. Katharina Lorenz ³ , Prof. Dr. Eleni C. Paloura ¹ 'Aristotle University of Thessaloniki, School of Physics, Thessaloniki, Greece, 'Friedrich Schiller Universität Jena, Institut für |
| | Festkörperphysik, Jena, Germany, ³Instituto Superior Técnino, Bobadela , Portugal |
| | DARK FIELD X-RAY MICROSCOPY OF HEAT TREATMENT OF VARIOUS STEEL GRADES |
| D1-P-TUE-P1-2 | Can Yildirim ¹ , Melanie Gauvin ² , Phil Cook ¹ , Henning F. Poulsen ³ , Roger Hubert ² , Carsten Detlefs ¹ |
| | ¹European Synchrotron Radiation Facility, 71 Avenue des Martyrs, CS40220, 38043, Grenoble, France, ²Onderzoeks Centrum voor de Aanwending van Staal, Pres.J.F. Kennedylaan 3, BE-9060, Zelzate, Belgium, ³Department of Physics, Technical University of Denmark, 2800 Kgs. Lyngby, Denmark |
| | MORPHOLOGY CHARACTERIZATION AND GROWTH MECHANISM OF PRIMARY SILICON PARTICLES IN THE HYPEREUTECTIC AL-SI ALLOYS VIA SYNCHROTRON X-RAY TOMOGRAPHY |
| D1-P-TUE-P1-3 | Mr. Jun Wang ¹ , Dr. Zhipeng Guo ^{1,2} , Professor Shoumei Xiong ^{1,2} |
| | ¹ School of Materials Science and Engineering, Tsinghua University, Beijing, China, ² Key Laboratory for Advanced Materials Processing Technology, Ministry of Education, Beijing, China |
| | TOTAL SCATTERING AND REVERSE MONTE-CARLO TECHNIQUES FOR THE ANALYSIS OF METALLIC SYSTEMS |
| D1-P-TUE-P1-4 | Mr Lewis R Owen ^{1,2} , Dr Helen Y Playford ² , Dr Howard J Stone ¹ , Dr Matt Tucker ³ |
| | ¹ Department of Materials Science and Metallurgy, University Of Cambridge, Cambridge, UK, ² ISIS Neutron and Muon Source, STFC, Didcot, Oxford, UK, ³ Spallation Neuton Source, Oak Ridge National Laboratory, USA |
| | SYNCHROTRON QUANTIFICATION OF 4D FRACTURING DURING DOUBLE TORSION EXPERIMENTS |
| D1-P-TUE-P1-5 | Dr Anne-Laure Fauchille ^{1,2} , Dr Mike Chandler ³ , Dr Sara Nonni ^{1,2} , Mr Sebastian Marussi ^{1,2} , Mr Hokyeom Kim ⁴ , Dr Mahmoud Mostafavi ⁴ , Dr Stephen Hedan ⁵ , Dr Julian Mecklenburgh ³ , Pr Peter Lee ^{1,2} ¹ School of Materials, University of Manchester, M13 9PJ, Manchester, United Kingdom, ² Research Complex at Harwell, Harwell Campus, OX11 0FA, Didcot, United Kingdom, ³ School of Earth, Atmospheric, and Environmental Sciences, University of Manchester, M13 9WJ, Manchester, United Kingdom, ⁴ Department of Mechanical Engineering, University of Bristol, Queen's |
| | Building, BS8 1TR, Bristol, United Kingdom, ⁵ Institut de Chimie des Milieux et Materiaux de Poitiers, ENSIP, UMR 7285 HydrASA, Poitiers, France |
| | SYNCHROTRON XRD ANALYSIS DURING THE SYNTHESIS AND CO2 CAPTURE OF Li8Si06 |
| D1-P-TUE-P1-6 | Dr Federico Cova¹, Eng Guillermina Amica², <u>Dr Maria Blanco</u> ³ |
| | ¹Neel Institute , Grenoble, France, ²Bariloche Atomic Center, San Carlos de Bariloche, Argentine, ³European Synchrotron Radiation Facility , Grenoble, France |
| | DEVELOPMENT OF A RIG FOR THE IN SITU SYNCHROTRON X-RAY IMAGING OF THE NUCLEATION AND GROWTH OF BUBBLES AND CRYSTALS IN BASALTIC MAGMAS |
| D1-P-TUE-P1-7 | Nolwenn Le Gall ^{1,2} , Biao Cai ^{1,2} , Fabio Arzilli ³ , Robert Atwood ^{2,4} , Sara Nonni ^{1,2} , Peter Rockett ^{1,2} , Richard Brooker ⁵ , Peter Lee ¹ , ² |
| | ¹ School of Materials, University of Manchester, Manchester, UK, ² Research Complex at Harwell, Rutherford Appleton Laboratories, Didcot, UK, ³ School of Earth and Environmental Sciences, University of Manchester, Manchester, UK, ⁴ Diamond Light Source Ltd, Harwell Science and Innovation Campus, Didcot, UK, ⁵ School of Earth Sciences, University of Bristol, Bristol, UK |
| | CRYSTALLIZATION KINETICS OF METALLIC GLASSES VIA FEMTOSECOND LASER HEATING |
| D1-P-TUE-P1-8 | <u>Dr. Jerzy Antonowicz</u> ¹ , Dr. Ryszard Sobierajski ³ , Dr. Peter Zalden ² , Dr. Klaus Sokolowski-Tinten ⁵ , Dr. Anna Pietnoczka ¹ , Prof. Dr. Olaf Magnussen ⁶ , Dr. Christoph Lemke ⁶ , Dr. Konstantinos Georgarakis ⁷ , Prof. Dr. Alan Lindsay Greer ⁸ , Dr. Uta Ruett ⁹ , Dr. Karthick Perumal ⁹ , Mr. Jonas Warias ⁶ , Dr. Bridget Murphy ⁶ |
| | ¹ Warsaw University Of Technology, Warsaw, Poland, ² Universitaet Hamburg, , Germany, ³ Institute of Physics Polish Academy of Sciences, , Poland, ⁴ Universitaet Duisburg-Essen, Germany, ⁵ Universitaet Duisburg-Essen, Germany, ⁶ Christian-Albrechts-Universitaet Kiel, Germany, ⁷ Cranfield University, United Kingdom, 8University of Cambridge, United Kingdom, 9DESY, Germany |

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| г | Symposium D.1: Materials Science with Synchrotron Radiation X-rays |
| | VANADIUM LOCAL STRUCTURE AND PHOTOINDUCED CHARGE TRANSFER IN NANOSTRUCTURED VANADIUM-DOPED TITANIA BY X-RAY ABSORPTION SPECTROSCOPY |
| D1-P-TUE-P1-9 | Dr. Luca Pasquini ¹ , Giacomo Rossi ¹ , Dr. Lucia Amidani ² , Dr. Federico Boscherini ¹ ¹ University of Bologna, Bologna, Italy, ² European Synchrotron Radiation Facility, Grenoble, France |
| | DETERMINATION OF DAMAGE MECHANISMS AND DAMAGE EVOLUTION DURING THERMOMECHANICAL FATIGUE OF CAST NEAR EUTECTIC AL-SI PISTON ALLOYS |
| D1-P-TUE-P1-10 | Katrin Bugelnig ¹ , Holger Germann ² , Thomas Steffens ² , Fabian Wilde ³ , Guillermo Requena ⁴ 'TU Vienna/E308, Vienna, Austria, ² KS Kolbenschmidt GmbH, Neckarsulm, Germany, ³ Helmholtz-Zentrum Geesthacht, Zentrum für Material- und Küstenforschung GmbH, Geesthacht, Germany, ⁴ German Aerospace Centre, Cologne, Germany |
| | LITHIUM ORTHOSILICATE: SYNTHESIS AND CO2 CAPTURE STUDIES BY IN-SITU SYNCHROTRON RADIATION POWDER X-RAY DIFFRACTION |
| D1-P-TUE-P1-11 | Eng Maria Laura Grasso ^{1,2} , Dr Maria Blanco ³ , Dr Federico Cova ⁴ , Dr Pierre Larochette ^{1,2} , Dr Fabiana Gennari ^{1,2,5} |
| | ¹ Balseiro Institute, San Carlos de Bariloche, Argentina, ² National Council for Scientific and Technical Research, CONICET, Argentina, ³ European Synchrotron Radiation Facility , Grenoble, France, ⁴ Neel Institute, Grenoble, France, ⁵ Bariloche Atomic Center, San Carlos de Bariloche, Argentina |
| | MOLECULAR CONFORMATION (DFT) AND INFLUENCE OF METHYL CH ³ RADICAL ON THE CRYSTAL STRUCTURE OF 3,5-DIBROMO-4-METHYLPYRIDINE |
| D1-P-TUE-P1-12 | Meriem Medjani ¹ , Ouarda Brihi ¹ , Samir Meskaldji ² , Ali Boudjada ¹ , Jean Meinnel ³ ¹ Laboratory of crystallography, Department of Physics, Algeria, ² École Normal Supérieur d'Enseignement Technologique, Skikda, Algeria, ³ University of Rennes ¹ , CNRS (UM R 6626), France |
| D1-P-TUE-P1-13 | A NOVEL OPERANDO HERFD-XANES CELL FOR STUDYING PHOTOELECTROCHEMICAL WATER-SPLITTING |
| | Philipp Jäker ¹ , Till Kyburz ¹ , Dr Dorota Koziej ^{1,2} ¹ ETH Zurich, Department of Materials, 8093 Zurich, Switzerland, ² University of Hamburg, Institutes of Nanostructures and Solid State Physics, Center for Hybrid Nanostructures, 20251 Hamburg, Germany |

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| r i | Symposium D.1: Materials Science with Synchrotron Radiation X-rays |
| D1-P-TUE-P1-14 | X-RAY SCATTERING STUDY ON THE INFLUENCE OF ADDITIVES IN SPIN-CAST BULK HETEROJUNCTION SOLAR CELLS |
| | Kang Wei Chou ¹ , Cheng Wang ² , Detlef Smilgies ³ , Aram Amassian ⁴ ¹ Henkel Ibérica S.A., Bellaterra, Spain, ² Advanced Light Source, Berkeley, USA, ³ Cornell High Energy Synchrotron Source, Ithaca, USA, ⁴ King Abdullah University of Science and Technology, Thuwal, Saudi Arabia |
| | MICRO AND CONVENTIONAL XAFS STUDY OF INCINERATED Cr-RICH TANNERY SLUDGE |
| D1-P-TUE-P1-15 | Dr. Fani Pinakidou¹, <u>Dr. Maria Katsikini</u> ¹, Dr. Savas Varitis¹, Prof. Dr. Eleni C. Paloura¹¹ <i>Aristotle University of Thessaloniki, School of Physics, Section of Solid State Physics, Greece</i> |
| | STRUCTURAL CHARACTERIZATION OF THE Ni55Fe19Ga26 SHAPE MEMORY ALLOY THIN FILM BY X-RAY ABSORPTION SPECTROSCOPY |
| D1-P-TUE-P1-16 | Mr. N. Patra ¹ , Dr. A. Biswas ¹ , Dr. C.L. Prajapat ¹ , Dr. P.U. Sastry ¹ , Dr. S. Tripathi ² , Dr. S.N. Jha ¹ , Dr. D. Bhattacharyya ¹ 'Bhabha Atomic Research Centre, Mumbai, India, ² Bhabha Atomic Research Centre, Visakhapatnam, India |
| | REDUCTION PROCESSES IN CERIUM OXIDE NANOSTRUCTURES STUDIED BY X-RAY ABSORPTION SPECTROSCOPIES |
| D1-P-TUE-P1-17 | Dr. Paola Luches ¹ , Mr. Gabriele Gasperi ^{1,2} , Mr. Francesco Benedetti ^{1,2} , Mr. Jacopo Stefano Pelli Cresi ^{1,2} , Dr. Maria Chiara Spadaro ^{1,2} , Prof. Sergio D'Addato ^{1,2} , Prof. Sergio Valeri ^{1,2} , Dr. Lucia Amidani ³ , Dr. Pieter Glatzel ³ , Prof. Federico Boscherini ^{4,5} |
| | ¹Istituto Nanoscienze, Consiglio Nazionale delle Ricerche, Modena, Italy, ²Dipartimento di Scienze Fisiche Informatiche e Matematiche, Univ. di Modena e Reggio Emilia, Modena, Italy, ³ESRF, Grenoble, France, ⁴Dipartimento di Fisica e Astronomia, Università di Bologna, Bologna, Italy, ⁵Istituto Officina dei Materiali, Consiglio Nazionale delle Ricerche, Trieste, Italy |
| | LOCAL ATOMIC STRUCTURE OF THIN FILM Ti-Cu METALLIC GLASSES - AN EXAFS STUDY |
| D1-P-TUE-P1-18 | Dr. Anna Pietnoczka¹, Dr. Jerzy Antonowicz ¹, Dr. Nikolaos T. Panagiotopoulos², Prof. Georgios A. Evangelakis², Prof. Alberto Moreira Jorge Jr.³, Dr. Aras Kartouzian⁴, Dr. Sakura Pascarelli⁵, Dr. Olivier Mathon⁵, Dr. Vera Cuartero⁵ |
| | ¹ Warsaw University Of Technology, ² University of Ioannina, ³ Universidade Federal de Sao Carlos, ⁴ Technische Universität München, ⁵ European Synchrotron Radiation Facility |
| D1-P-TUE-P1-19 | EVALUATION OF MOLECULAR ORIENTATION IN PHOTOREACTIVE LIQUID CRYSTALLINE POLYMER FILMS BY THREE KINDS OF NEXAFS MEASUREMENTS |
| DI-F-10E-F1-19 | Yuichi Haruyama, M Okada, E Nishioka, M Kondo, N Kawatsuki, S Matsui 'University of Hyogo, Kamigori, Ako, Japan |
| | X-RAY EMISSION SPECTROSCOPY WITHIN THE AXSIS PROJECT: ELECTRONIC DYNAMICS AND UNDAMAGED ELECTRONIC STRUCTURE STUDY OF PHOTOSYSTEM II |
| D1-P-TUE-P1-20 | Dr. Victoria Mazalova ¹ , Dr. Romain Letrun ¹ , Dr. Iosifina Sarrou ¹ , Prof. Petra Fromme ² |
| | ¹ Center for Free Electron Laser Science, DESY, Hamburg , Germany, ² Department of Chemistry and Biochemistry, Arizona State University, Tempe, USA |
| | IN-SITU X-RAY DIFFRACTION TENSILE TESTING OF AN AUSTENITIC CREEP-ENHANCED STAINLESS STEEL |
| D1-P-TUE-P1-21 | Ryan Smith ¹ , Mahmut Cinbiz ³ , Jun-Sung Park ² , Jonathan Almer ² , <u>Djamel Kaoumi</u> . ¹ 'North Carolina State University, Raleigh, United States, ² Argonne National Laboratory, Argonne, united states, |
| | ³ Oak Ridge National Laboratory, Oak Ridge, united states |
| D1-P-TUE-P1-22 | SYNCHROTRON X-RAY STUDIES AT HIGH PRESSURE, HIGH TEMPERATURES IN A LARGE VOLUME PRESS |
| | Dr. Christian Lathe ¹ , Dr. Joern Lauterjung ¹ 'GFZ German Research Centre For Geosciences, Potsdam, Germany |
| D1-P-TUE-P1-23 | SPACE AND TIME RESOLVED INVESTIGATION OF CHEMICAL REACTIONS ALONG REACTOR BED BY OPERANDO X-RAY ABSORPTION SPECTROSCOPY |
| | Dr. Diego Gianolio ¹ , Dr Stephen Parry ¹ , Dr Giannantonio Cibin ¹ , Dr John D. Holbrey ² , Prof Mark A. Newton ³ , Dr King Kuok (Mimi) Hii ⁴ , Prof Klaus Hellgardt ⁵ |
| | ¹ Diamond Light Source, Harwell Science & Innovation Campus, Didcot, OX11 0DE, United Kingdom, ² QUILL, School of Chemistry and Chemical Engineering, The Queen's University of Belfast, Belfast, BT9 5AG, United Kingdom, ³ Department of Physics, University of Warwick, Gibbet Hill Road, Coventry, CV4 7AL, United Kingdom, ⁴ Department of Chemistry, Imperial College London, South Kensington, London, SW7 2AZ, United Kingdom, ⁵ Department of Chemical Engineering, Imperial College London, South Kensington, London SW7 2AZ, UK, United Kingdom |

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| Tuesday, September 19, 2017 | |
| | Symposium D.1: Materials Science with Synchrotron Radiation X-rays |
| D1-P-TUE-P1-24 | PRELIMINARY RESULTS ON TI-ZEOLITES TO TEST THE NEW NEXAFS CATALYTIC SET-UP AT APE BEAMLINE |
| | Luca Braglia ^{1,2} , Matteo Signorile ¹ , Ilya Pankin ¹ , ² , Elena Groppo ¹ , Alessandro Damin ¹ , Silvia Bordiga ^{1,3} , Piero Torelli ⁴ , Carlo Lamberti ^{2,5} |
| | ¹ Department of Chemistry, NIS and INSTM Reference Centers, University of Turin, Turin, Italy, ² IRC "Smart Materials", Southern Federal University, Rostov on Don, Russia, ³ inGAP Centre for Research Based Innovation, Dept. of Chemistry, University of Oslo, Oslo, Norway, ⁴ Elettra—Sincrotrone Trieste S.C.p.A., Trieste, Italy, ⁵ Department of Chemistry, CrisDi Interdepartmental Centre and INSRM reference University of Turin, Turin, Italy |
| | ALIOVALENT DOPING IN COLLOIDAL QUANTUM DOTS: XAFS |
| D1-P-TUE-P1-25 | Prof. Federico Boscherini ¹ , Dr Alexandros Stavrinadis ² , Dr. Jacopo Pelli Cresi ³ , Dr. Francesco d'Acapito ⁴ , Dr César Magén ⁵ , Dr Gerasimos Konstantatos ² |
| | ¹University of Bologna, Bologna, Italy, ²ICFO, Barcelona, Spain, ³University of Modena and Reggio Emilia, Modena, Italy, 4CNR-10M, c/o ESRF, Grenoble, France, ⁵INA-ARAID, University of Zaragoza, Zaragoza, Spain |
| | DEVELOPMENT AND APPLICATION OF LABORATORY-BASED IN SITU X-RAY MICROSCOPY |
| D1-P-TUE-P1-26 | <u>Leah Lucas Lavery</u> ¹ , Hrishikesh Bale ¹ , Jeff Gelb ¹ , Luke Hunter ¹ , Lars-Oliver Kautschor ¹ ¹ Carl Zeiss X-ray Microscopy, Pleasanton, United States |
| | IN-SITU NANO X-RAY MICROSCOPY: VISUALIZING THE GROWTH OF POLYCRYSTALLINE THIN FILM SOLAR ABSORBERS |
| D1-P-TUE-P1-27 | B. West¹, M. Stuckelberger¹, R. J. Lovelett², S. Soltanmohammad², B. Lai³, J. M. Maser³, W.N. Shafarman², Mariana Bertoni ¹ |
| | ¹ Defect Lab, School of Electrical, Computer and Energy Engineering, Arizona State University, Tempe, United States, ² Institute of Energy Conversion, Department of Chemical and Biomolecular Engineering, Newark, United States, ³ Advanced Photon Source, Argonne National Laboratory, Argonne, United States |
| | BEAM-INDUCED DYNAMICS IN GLASSES |
| D1-P-TUE-P1-28 | Mr. Christoph Tietz ¹ , Ms. Katharina Holzweber ¹ , Mr. Michael Legenstein ¹ , Dr. Markus Stana ¹ , Dr. Manuel Ross ¹ , Prof. Bogdan Sepiol ¹ |
| | ¹University Of Vienna, Vienna, Austria |
| | SYNCHROTRON QUANTIFICATION OF SHALE FRACTURE DURING INDENTATION |
| D1-P-TUE-P1-29 | Dr Anne-Laure Fauchille ^{1,2} , Dr Mike Chandler ³ , Dr Lin Ma ³ , Dr Patrick Dowey ³ , Pr Ernest Rutter ³ , Dr Julian Mecklenburgh ³ , M Sebastian Marussi ^{1,2} , Dr Francesco Iacoviello ⁴ , Pr Kevin Taylor ³ , Pr Peter Lee ^{1,2} |
| | ¹ Manchester X-Ray Imaging Facility, School of Materials, the University of Manchester, UK, Didcot, United Kingdom, ² Research Complex at Harwell, Rutherford Appleton Laboratory, Didcot, United Kingdom, ³ School of Earth and Environmental Sciences, the University of Manchester, Manchester, United Kingdom, ⁴ University College London, Department of Chemical Engineering, London, United Kingdom |
| D1-P-TUE-P1-30 | REAL-TIME CHEMICAL IMAGING OF FUNCTIONAL MATERIALS UNDER OPERATING CONDITIONS |
| | Mr Antonios Vamvakeros ^{1,2,3} , Professor Andrew M. Beale ^{1,2} , Dr. Simon D. M. Jacques ² , Dr. Vesna Middelkoop ⁴ , Dr. Marco Di Michiel ³ |
| | ¹ University College London, London, United Kingdom, ² Finden Ltd., Abingdon, United Kingdom, ³ ESRF, Grenoble, France, ⁴ Flemish Institute for Technological Research (VITO), Mol, Belgium |

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| | Tuesday, September 19, 2017 |
| P1 - | Symposium D.2: Nanoscale Materials Characterization and Modeling by Advanced Microscopy Methods |
| _ | SYNTHESIS OF NANO IRON COPPER CORE SHELL BY USING K-M REACTOR |
| D2-P-TUE-P1-1 | Dr Mohamed Hammad ¹ |
| | ¹Cmrdi, Giza, Egypt |
| | SHOCKLEY PARTIAL DISLOCATIONS IN GALLIUM NITRIDE |
| | Doctor Imad Belabbas¹, <u>Doctor George Dimitrakopulos</u> ², Doctor Joseph Kioseoglou², Doctor Julita Smalc-Koziorowska³, Doctor Jun Chen⁴ |
| D2-P-TUE-P1-2 | Laboratoire de Physico-Chimie des Matériaux et Catalyse. Faculté des Sciences Exactes, Université de Bejaia 06000, Algeria, Bejaia, Algeria, ² Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece, Thessaloniki, Greece, ³ Institute of High Pressure Physics, Polish Academy of Sciences, Sokolowska 29/37, 01-142 Warsaw, Poland., Warsaw, Poland, ⁴ CIMAP-Alençon, UMR6252, CNRS-CEA-ENSICAEN, Université de Caen Basse-Normandie, 14032, France, Alençon, France |
| | NANOSCALE CHARACTERIZATION OF THE SURFACE STRUCTURE OF 1T-TaS2 |
| D2-P-TUE-P1-3 | Elpida Zormpa ¹ , Zbigniew Klusek ² , Ioannis Arvanitidis ¹ |
| | ¹Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ²Department of Solid State Physics, University of Lodz, Lodz, Poland |
| | INVESTIGATION OF THE STRANSKI-KRASTANOW GROWTH OF SIGE/SI AND GE/SI BY A COMPARISON OF ANALYTICAL TRANSMISSION ELECTRON MICROSCOPY WITH SEGREGATION MODELLING |
| D2-P-TUE-P1-4 | Dr David J Norris¹, <u>Dr Thomas Walther</u> ¹ |
| | ¹University Of Sheffield, Sheffield, United Kingdom |
| | NANOSCALE CHARACTERISTICS OF SOLUTION-GROWN In203/ZnO HETEROJUNCTIONS |
| D2-P-TUE-P1-5 | Dr. Thomas Kehagias ¹ , Dr. George P. Dimitrakopulos ¹ , Mr. Isaak G. Vasileiadis ¹ , Dr. Hendrik Faber ² , Dr. Ivan Isakov ² , Dr. Panos P. Patsalas ¹ , Dr. Thomas D. Anthopoulos ^{2,3} Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ² Department of Physics and Centre for Plastic Electronics, Blackett Laboratory, Imperial College London, London SW7 2AZ, United Kingdom, ³ Materials Science and Engineering Division of Physical Sciences and Engineering, King Abdullah University of Science and Technology, Thuwal 23955-6900, Saudi Arabia |
| | MICROSTRUCTURAL EVOLUTION IN Ingan EPITAXIAL FILMS ON AIN AND GAN TEMPLATES |
| D2-P-TUE-P1-6 | Dr Calliope Bazioti ¹ , Elena Papadomanolaki ^{2,3} , Assist. Professor Julita Smalc-Koziorowska ⁴ , Professor Thomas Kehagias ¹ , Assist. Professor Eleftherios Iliopoulos ^{2,3} , Associate Professor Georgios Dimitrakopulos ¹ |
| | ¹Physics Department, Aristotle University Of Thessaloniki, Thessaloniki, Greece, ²Microelectronics Research Group (MRG), IESL, FORTH, Heraklion Crete, Greece, ³Physics Department, University of Crete, Heraklion Crete, Greece, ⁴Institute of High Pressure Physics, Polish Academy of Sciences, Warsaw, Poland |
| D0 D THE D1 7 | TEM STUDY OF THE STRUCTURAL DEFECTS FORMATION IN ELECTRON IRRADIATED CADMIUM TELLURIDE |
| D2-P-TUE-P1-7 | Yuri Loginov ¹ , Paul Brown ² , Igor Kovalev ¹ , Pavel Zelenkov ¹ |
| | ¹ Siberian State Aerospace University, Krasnoyarsk, Russian Federation, ² University of Nottingham, Nottingham, UK |
| | NANOSCALE EVALUATION OF INTERFACES IN Fe/Pt BILAYERS FOR SPIN-PUMPING |
| D2-P-TUE-P1-8 | Dr. Thomas Kehaqias ¹ , Dr. George P. Dimitrakopulos ¹ , Dr. Sascha Keller ² , Mr. Dimitrios Karfaridis ¹ , Dr. George Vourlias ¹ , Dr. Evangelos Papaioannou ² 'Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ² Fachbereich Physik and |
| | Landesforschungszentrum OPTIMAS, Technische Universität Kaiserslautern, 67663 Kaiserslautern, Germany |
| D2-P-TUE-P1-9 | DETERMINATION OF BI AND AL DISTRIBUTION IN (Ga,In)AS CORE NANOWIRES WITH (Ga,Al)As AND Ga(Bi,As) SHELLS BY FIB, STEM AND EDX |
| | Msc. Anna Kaleta ¹ , Profesor Sławomir Kret ¹ , MSc. Bogusawa Kurowska ¹ , MSc. Marta Bilska ¹ , Dr. Ana Sanchez ² , Profesor Janusz Sadowski ^{1,3,4} |
| | ¹ Institute of Physics of Polish Academy of Sciences, al. Lotników 32/46, 02-668 Warsaw, Warsaw, Poland, ² Department of Physics, University of Warwick, Coventry CV4 7AL, Coventry, United Kingdom, ³ MAX-IV laboratory, Lund University, P.O. Box 118, 221 00 Lund, Lund, Sweden, ⁴ Department of Physics and Electrical Engineering, Linnaeus University, 391 82 Kalmar, Kalmar, Sweden |
| | Fe-X (X=Mn, Co, Cu) NANOCLUSTERS BY DENSITY FUNCTIONAL THEORY CALCULATIONS |
| D2-P-TUE-P1-10 | Carla Cutrano ¹ , Konstantina Botsiou ¹ , Christina Lekka ¹ ¹ University Of Ioannina, Ioannina, Greece |
| D2-P-TUE-P1-11 | IMAGING AFM-METHODS YIELDING YOUNG'S MODULUS MAPS OF AN EPOXY/BOEHMITE NANOCOMPOSITE WITH HIGH SPATIAL RESOLUTION |
| | Dr. Dorothee Silbernagl ¹ , M.Sc. Media Ghasem Zadeh Khorasani ¹ , Prof. Heinz Sturm ^{1,2} ¹ Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany, ² Technische Universität Berlin, IWF, Berlin, Germany |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
|-----------------------------|---|
| Tuesday, September 19, 2017 | |
| | Symposium D.2: Nanoscale Materials Characterization and Modeling by Advanced Microscopy Methods |
| D2-P-TUE-P1-12 | A COMPARATIVE APPROACH TO DETERMINING THE MECHANICAL PROPERTIES OF ULTRA-THIN COATINGS |
| | <u>Dr. Zhi Li</u> ¹, Dr. Uwe Brand |
| | ¹Physikalisch-technische Bundesanstalt, Braunschweig, Germany |
| | THE IMPACT OF STRAIN ON THE ELASTIC CONSTANTS OF GAN AND INN |
| D2-P-TUE-P1-13 | Mrs Maria Soumelidou ¹ , Prof. Imad Belabbas ² , Prof. Joseph Kioseoglou ¹ , Prof. Philomela Komninou ¹ , Prof. Jun Chen ³ , Prof. Theodoros Karakostas ¹ Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece, Thessaloniki, Greece, ² Groupe de Cristallographie et de Simulation des Matériaux, Laboratoire de Physico-Chimie des Matériaux et Catalyse, Faculté des Sciences Exactes, Université de Bejaia, Bejaia 06000, Algérie, Bejaia, Algérie, ³ CIMAP-Alençon, UMR ⁸²⁵² CNRS-CEA-ENSICAEN, Université de Caen Basse-Normandie, 14032 Caen cedex, France, Caen, France |
| | OPTIMIZATION OF SPECIMEN PREPARATION METHOD AND WORKING CONDITIONS FOR TRANSMISSION ELECTRON MICROSCOPY STUDY OF ORGANIC-INORGANIC PEROVSKITE CH3NH3Pbi3 |
| D2-P-TUE-P1-14 | Natalia Fernández Delgado ¹ , Miriam Herrera Collado ¹ , Francisco Javier Delgado ¹ , Emilio Juárez Pérez ² , Ivan Mora Sero ² , Sergio Ignacio Molina ¹ Department of Material Science, Metallurgical Engineering and Inorganic Chemistry, IMEYMAT, University of Cádiz, 11510, Puerto Real, Cádiz, Spain, ² INAM, Institute of Advanced Materials, Universitat Jaume I, 12006 Castelló, Spain |
| | POLY-SI FILMS CONSISTING OF SI WHISKERS CRYSTALLIZED BY NI METAL INDUCE LATERAL CRYSTALLIZATION AT TEMPERATURES AS LOW AS 413oC |
| D2-P-TUE-P1-16 | Dr. Assist. Prof. Nikolaos Vouroutzis ¹ , Professor John Stoemenos ¹ , Professor Nikolaos Frangis ¹ , Dr G. Z. Radnóczi ² , Dr E. Dodony ^{2,3} , Dr Béla Pécz ² |
| | ¹ Aristotle University of Thessaloniki, School of Physics, Thessaloniki, Greece, ² Hungarian Academy of Sciences, Institute for Technical Physics and Materials Sci., Budapest, Hungary, ³ Eötvös Loránd University, Doctoral School of Physics, Budapest, Hungary |
| D2-P-TUE-P1-17 | SIMULATIONS REVEAL THE ROLE OF COMPOSITION INTO THE ATOMIC-LEVEL FLEXIBILITY OF BIOACTIVE GLASS CEMENTS |
| DZ-P-10E-P1-17 | <u>Dr Devis Di Tommaso</u> ¹ , Dr Gregory Chass ¹ , Dr Kun Viviana Tian ² ¹ Queen Mary University College London, London, United Kingdom, ² University of Rome Tor Vergata, Rome, Italy |
| | TRANSMISSION ELECTRON MICROSCOPY STUDY OF Co DOPED Zno NANORODS |
| D2-P-TUE-P1-18 | <u>Dr Nikos Boukos</u> ¹ , Dr Elias Sakellis ¹ , ² , Dr Marius Grundmann ³ , Dr Michael Lorenz ³ , Dr Chryssa Chandrinou ¹ , Dr Kostas Giannakopoulos ¹ , Dr Anastasios Travlos ¹ |
| | ¹ National Centre For Scientific Research "Demokritos", Institute of Nanoscience and Nanotechnology, Agia Paraskevi Attikis, Greece, ² University of Athens, Physics Department, Section of Solid State Physics, Zografos, Athens, Greece, ³ Institut für Experimentelle Physik II, Universität Leipzig, Leipzig, Germany |
| | APT AND t-EBSD OF SELF-FACETING GRAIN BOUNDARIES IN A NI-BASED ALLOY |
| D2-P-TUE-P1-19 | Dr. Jae-Bok Seol ¹ , Dr. JW. Lee ² , Dr. SH. Na ³ , Dr. JH. Jang ⁴ , Dr. HU. Hong ¹ 'National Institute for Nanomaterials Technology, POSTECH, POHANG, South Korea, ² Department of Materials Science and Engineering, Changwon Natl. University, Changwon, South Korea, ³ Department of Materials Science and Engineering, POSTECH, POHANG, South Korea, ⁴ Ferrous Alloy Department, Korea Institute of Materials Science, Changwon, South Korea |
| D2-P-TUE-P1-20 | INDENTATION-INDUCED PLASTIC DEFORMATION AND FRACTURE IN (0001) AND (10-10) Gan single crystals at the microscale and nanoscale |
| | Dr. Panagiotis Kavouras ^{1,2} , Dr. Ingmar Ratschinski ^{3,4} , George P. Dimitrakopulos ² , Dr. Hartmut Leipner ⁴ , Dr. Philomela Komninou ² , Dr. Gunnar Leibiger ⁵ , Dr. Frank Habel ⁵ ¹Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Attica, Athens, Greece, ²Department of Physics, Aristotle University of Thessaloniki, 54 124, Thessaloniki, Greece, ³Institut für Nichtmetallische Werkstoffe, Technische Universität Clausthal, 38678, Clausthal-Zellerfeld, Germany, ⁴Interdisziplinäres Zentrum für Materialwissenschaften, Martin-Luther-Universität Halle-Wittenberg, 06099, Halle, Germany, ⁵Freiberger Compound Materials GmbH, 09599, Freiberg, Germany |
| | NUMERICAL AND EXPERIMENTAL ELASTIC STRAIN PROFILING IN III-V SEMICONDUCTOR NANOSTRUCTURES |
| D2-P-TUE-P1-21 | Ms Nikoletta Florini ¹ , Dr. George P. Dimitrakopulos ¹ , Dr. Joseph Kioseoglou ¹ , Dr. Nikolaos T. Pelekanos ^{2,3} , Dr. Thomas Kehagias ¹ |
| | ¹ Physics Department, Aristotle University Of Thessaloniki, GR-54124, Thessaloniki, Greece, ² Department of Materials Science and Technology, University of Crete, P.O. Box 2208, 70013 Heraklion, Greece, ³ Microelectronics Research Group, IESL-FORTH, P.O. Box 1385, 70013 Heraklion, Greece |

| | TIME: 13:00–15:00 R00M: F0YER, E1/M1 |
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| Pl | Tuesday, September 19, 2017 |
| FI - | Symposium D.2: Nanoscale Materials Characterization and Modeling by Advanced Microscopy Methods |
| D2-P-TUE-P1-22 | QUANTITATIVE ANALYSIS OF THE STEPPED-STRAINED 6H-SIC/ALN INTERFACE IN HEMT STRUCTURES |
| | Mrs. Alexandra Gkanatsiou ¹ , Mr. Christos Lioutas ¹ ¹ Solid State Physics Section, Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece |
| | LATERAL FORCE CALIBRATION IN ATOMIC FORCE MICROSCOPE USING MEMS MICROFORCE SENSOR. |
| D2-P-TUE-P1-23 | Msc Wojciech Dera ¹ , Msc Cezary Dziekoński ¹ , Phd Dariusz Jarząbek ¹ 'Institute Of Fundamental Technological Research, Warsaw, Poland |
| | ELECTRON MICROSCOPY OF BILAYER Cu-Sb FILM |
| D2-P-TUE-P1-24 | Aleksandra Bokuniaeva ¹ , Vladimir Kolosov, Lev Veretennikov, Anton Yushkov ¹ Ural Federal University, Ekaterinburg, Russian Federation |
| | OBSERVATION OF A NOVEL Al3Zr-n´ CORE-SHELL PARTICLE IN Al-Zn-Mg-Cu ALLOY |
| D2-P-TUE-P1-25 | Doc. Fei Liu ¹ , Doc. Pucun Bai ¹ , Doc. Xiaohu Hou ¹ , Mr. Naiqiang Tong ¹ , Doc. Xiaoming Cui ¹ ¹ College Of Materials Science And Engineering, Inner Mongolia University Of Technology, Hohhot, China |
| | THREE-DIMENSIONAL STRUCTURE CHARACTERIZATION OF NANOTUBULAR METAL OXIDE FILMS |
| D2-P-TUE-P1-26 | Dr Mariusz Andrzejczuk ¹ , Dr Agata Roguska ² , Dr Marcin Pisarek ² , Prof. Małgorzata Lewandowska ¹ ¹ Warsaw University of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland, ² Polish Academy of Sciences, Institute of Physical Chemistry, Warsaw, Poland |
| | X-RAY PEAK BROADENING ANALYSIS AND CHARACTERIZATION OF SUB-MICRON Y203 PARTICLES SYNTHESIZED BY ULTRASONIC SPRAY PYROLYSIS METHOD |
| D2-P-TUE-P1-27 | Elif Emil ^{1,2} , Sebahattin Gurmen ¹ ¹Istanbul Technical University, Department of Metallurgical & Materials Eng., Istanbul, Turkey, ²Turkish - German University, Department of Materials Science & Tech., Istanbul, Turkey |
| | IN-SITU ENVIRONMENTAL TRANSMISSION ELECTRON MICROSCOPY CHARACTERIZATION OF CATALYST MATERIALS |
| D2-P-TUE-P1-28 | Phd Annett Thogersen ¹ , PhD Patricia Carvalho ¹ , PhD Mehdi Pishahang ¹ , Martin Sunding ¹ , PhD Anna Lind ¹ , PhD Yngve Larring ¹ , PhD Spyros Diplas ¹ 'SINTEF Materials and Chemistry, Oslo, Norway |
| D2-P-TUE-P1-29 | STRUCTURAL CHARACTERIZATION AND NANOSCALE BANDGAP MEASUREMENTS OF (ZnO)1-x (GaN)x THIN FILMS |
| | C. Bazioti ¹ , C. S. Granerød ¹ , Olsen V. S. ¹ , Vines L. ¹ , B. G. Svensson ¹ , Prytz Ø ¹ Department of Physics, Center for Materials and Nanotechnology, University of Oslo, P.O. Box 1048 Blindern, N-0316, Oslo, Norway |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| P1 | Tuesday September 19, 2017 |
| | Symposium D.4: Small scale mechanics, fracture, interface, experiments and modeling |
| D4-P-TUE-P1-1 | EVALUATING THE ADHESION BETWEEN INP AND SI: A COMPARATIVE STUDY BETWEEN THE TRADITIONAL DCB EXPERIMENT AND ITS NANO-SCALE ANALOGUE |
| | Dr Konstantinos Pantzas ¹ , Dr Frank Fournel ² , Dr Gilles Patriarche ¹ , Dr Jean Decobert ⁴ , Dr Anne Talneau ¹ , Prof Eric Le Bourhis ³ |
| | ¹ Cnrs Center for Nanoscience and Nanotechnology, Marcoussis, France, ² CEA Leti, Grenoble, France, ³ Institut P', Chasseneuil, France, 43-5 Labs, Palaiseau, France |
| D4-P-TUE-P1-2 | EUROPEAN MATERIALS CHARACTERISATION COUNCIL (EMCC) |
| | Dr. Costas Charitidis ^{1,2} , Dr Panagiotis Kavouras ¹ , Dr. Elias Koumoulos ¹ , ² |
| | ¹ Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, Greece, ² European Materials Characterisation Council (EMCC), http://www.characterisation.eu/ |

| | TIME: 13:00–15:00 R00M: F0YER, E1/M1 |
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| Pl | Tuesday September 19, 2017 |
| F 1 | Symposium D.4: Small scale mechanics, fracture, interface, experiments and modeling |
| D4-P-TUE-P1-3 | INDENTATION CREEP TESTING OF SUPERALLOYS WITH FLAT PUNCH INDENTER UP TO 800°C |
| | Markus Kolb ¹ , Dr. Dorothea Matschkal ¹ , Dr. Steffen Neumeier ¹ , Prof. Mathias Göken ¹ **University Erlangen-Nürnberg, Erlangen, Germany |
| D4-P-TUE-P1-4 | MECHANICAL CHARACTERIZATION OF HETEROGENEOUS MATERIALS BY MULTISCALE INSTRUMENTED INDENTATION |
| | Stephania Kossman ^{1,2} , Didier Chicot ¹ , Alain Iost ² , Philippe Dufrenoy ^{1,3,4} , Anne-Lise Cristol ^{1,3,4} , Vincent Magnier ^{1,4} |
| | ¹ Universite de Lille, FRE 3723 - LML - Laboratoire de Mécanique de Lille, Villeneuve d'Ascq F-59650, France, ² Arts et Métiers ParisTech, MSMP, Lille 59800, France, ³ Ecole Centrale de Lille, LML, Villeneuve d'Ascq F-59650, France, ⁴ CNRS, UMR 8107, Villeneuve d'Ascq F-59650, France |
| | MICROMECHANICS OF FATIGUE CRACK INITIATION AND SMALL CRACK GROWTH IN AN ALUMINIUM ALLOY |
| D4-P-TUE-P1-5 | Dr Panos Efthymiadis², <u>Senior Lecturer Christophe Pinna</u> , Professor John R Yates³ |
| D4-P-10E-P1-5 | ¹ The University of Sheffield, Department of Mechanical Engineering, Solly Street, S1 4DE Sheffield, UK, Sheffield, United Kingdom, ² Warwick Manufacturing Group, International Manufacturing Centre, University of Warwick, Coventry CV4 7AL, UK, previously in the Department of Mechanical Engineering, the University of Sheffield, Mappin Street, Sheffield S1 3JD, UK, Coventry, UK, ³ Simuline Ltd., Derbyshire S18 1QD, UK, Derby, UK |
| | THE GRADELA MODEL AND TUNNEL ZONAL ROCK DISINTEGRATION |
| D4-P-TUE-P1-6 | PhD student Anastasios Vafeidis ¹ , PhD student Cheng Chu ² , Postdoc student Ioannis Tsagrakis ¹ , <u>Professor Chengzhi Qi</u> ⁶ , Professor Elias Aifantis ^{1,3,4,5,6} |
| | ¹Aristotle University, Thessaloniki, Greece, ²Nanjing University of Science and Technology, Nanjing, China, ³Michigan Technological University, Houghton, USA, ⁴ITMO University, St. Petersburg, Russia, ⁵Togliatti State University, Togliatti, Russia, ⁴Beijing University of Civil Engineering and Architecture, Beijing, China |
| | CHARACTERIZATION OF MULTILAYERS POROUS SILICON SYSTEMS BY MEANS OF NANOINDENTATION |
| D4-P-TUE-P1-7 | Souheyla Fakiri ^{1,2} , Dr. Alex Montagne ³ , Dr. Khadija Rahmoun ¹ , <u>Pr. Alain Iost</u> ³ , Dr. Katir Ziouche ² 'URMER, Université Abou Bekr Belkaid, 13000 Tlemcen, Algeria, ² IEMN, UMR CNRS 8520 IEMN-DHS, 59652 Villeneuve d'Ascq, France, ³ MSMP, Arts et Métiers ParisTech, 59046 Lille, France |
| | TELEPHONE CORD BUCKLING METHODOLOGY FOR WAFER LEVEL NON-INVASIVE PROCESS TO STUDY MICROELECTRONIC INTERFACES ADHESION |
| D4-P-THU-P2-8 | Anne Ponard ¹ , Gregory Imbert ¹ , Frederic Battegay ¹ , Faouzi Walid Saadoune ¹ , Guillaume Parry ² , Rafael Estevez ² |
| | ¹STMicroelectronics, Crolles, France, ²Université Grenoble Alpes, Grenoble, France |
| D/ D THE D1 0 | EXTENDED MODELS OF PLATES BASED ON STRAIN GRADIENT ELASTICITY |
| D4-P-TUE-P1-9 | Prof Elias Aifantis, <u>Prof Victor Eremeyev</u> ¹ ¹Rzeszow University of Technology, Rzeszow, Poland |
| D4-P-TUE-P1-10 | EXPERIMENTAL STUDY ON THE MECHANICAL PROPERTIES OF SUTURES USED IN VASCULAR SURGERY |
| | Mr Charis Tsivlitidis ¹ , Dr Anna D. Zervaki ¹ , Prof. Antonios Giannakopoulos ² ¹ Laboratory of Materials, Dept. of Mechanical Engineering, Pedion Areos, 38334 Volos, Greece, Volos, Greece, ² University Of Thessaly, Dept of Civil Engineering, Volos, Greece |
| D4-P-TUE-P1-11 | RECOGNITION OF A MATERIAL MICROSTRUCTURE BASED ON NEURAL NETWORK TECHNOLOGIES |
| | Professor Valeriy Stolbov ¹ , student Grigoriy Aristov ¹ , seniur lectures Andrey Klyuev ¹ 1 Perm National Research Polytechnic University, Perm, Russian Federation |
| D4-P-TUE-P1-12 | EFFECTIVE BEHAVIOR AND INVERSE MATERIAL CHARACTERIZATION OF SCAFFOLDS MADE OF POLYCAPROLACTONE |
| | Marios Pantazopoulos ^{1,2} , George Chatzigeorgiou³, Nikolaos Michailidis ^{1,2} , Fodil Meraghni³, Nicolas Charalambakis² |
| | Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ² 2 Center for Research & Development of Advanced Materials, KEDEK - AUTh Balkan Center, Building B', 10th km Thessaloniki-Thermi road, 57001, Thessaloniki, Greece, ³ LEM3-UMR 7239 CNRS, Arts et Metiers ParisTech Metz-Lorraine, Metz, France |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| D1 | Tuesday, September 19, 2017 |
| Pl - | Symposium D.9: Qualification and modelling of structural and fuel materials for sustainable nuclear reactors |
| D9-P-TUE-P1-1 | MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF THE MICROSTRUCTURES DEVELOPED IN A 14Cr ods alloy before and after ion irradiation by means of nanoindentation and transmission electron microscopy |
| | Elvira Oñorbe ¹ , Miguel Monclús ² , Cornelia Heintze ³ , Mercedes Hernandez Mayoral ¹ ¹ Ciemat, Madrid, Spain, ² IMDEA, Getafe, Spain, ³ HZDR, Dresden, Germany |
| | SOLUTE EFFECTS ON DISLOCATION PINNING IN Fe-BCC ALLOYS |
| D9-P-TUE-P1-2 | Dr Maria Ines Pascuet ^{1,2} , Dr Enrique Martinez ³ , Dr Ghiat Monnet ⁴ , <u>Dr Nicolas Castin</u> ¹ , Dr Lorenzo Malerba ¹ |
| | ¹SCK•CEN, Boeretang 200, Belgium,²CONICET, (C1425FQB) CABA, Argentine, ³Los Alamos National Laboratory, Los Alamos, USA, ⁴EDF-R&D, Av des Renardières, France |
| D9-P-TUE-P1-4 | FORMATION AND RE-ORIENTATION OF MULTI-PHASE HYDRIDES IN ZIRCONIUM: A MULTIPHASE FIELD MODELING STUDY |
| | Dr. Mohsen Asle Zaeem ¹ , Dr. Jacob Bair ¹ Missouri University of Science and Technology, Rolla, United States |
| | CORROSION BEHAVIOUR OF HIGH ENTROPY ALLOYS EXPOSED TO OXYGEN-CONTAINING MOLTEN LEAD |
| D9-P-TUE-P1-5 | Dr. Adrian Jianu ¹ , Dr. Alfons Weisenburger ¹ , Hao Shi ¹ , Dr. Annette Heinzel ¹ , Dr. Renate Fetzer ¹ , Prof. Ionelia Voiculescu ² , Prof. Victor Geanta ² , Prof. Georg Mueller ¹ |
| | ¹ Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany, ² University Politehnica of Bucharest, Bucharest, Romania |
| | ALUMINA DETONATION SPRAY COATINGS FOR LEAD COOLED NUCLEAR REACTORS |
| D9-P-TUE-P1-6 | Dr Claudio Mingazzini ¹ , Dr. Eng. Marco Utili ¹ , Mr. Alessandro Ventura ¹ , <u>Dr. Massimo Angiolini</u> ¹ , Mr. Angelo Tati ¹ , Dr. Fabio De Pascalis ¹ , Dr Michele Nacucchi ¹ , Dr. Eng. Pietro Agostini ¹ 'Enea, www.enea.it, (Faenza, Brasimone, Brindisi and Casaccia Research Centers) Italy |
| | A MULTIOBJECTIVE SEARCH FOR ALTERNATIVE TUNGSTEN ALLOYS IN NUCLEAR FUSION |
| D9-P-TUE-P1-7 | Kurt Lejaeghere ¹ , Stefaan Cottenier ^{1,2} , Veronique Van Speybroeck ¹ ¹ Center for Molecular Modeling, Ghent University, Zwijnaarde, Belgium, ² Department of Electrical Energy, Metals, Mechanical Constructions and Systems, Ghent University, Zwijnaarde, Belgium |
| | ION-IRRADIATION-INDUCED HARDENING OF FeCr-NiSiP ALLOYS |
| D9-P-TUE-P1-8 | <u>Dr. Cornelia Heintze</u> ¹ , Dr. Frank Bergner ¹ , Dr. Shavkat Akhmadaliev ¹ ¹ Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany |
| | MODELING THE INTERNAL FRICTION IN TERNARY BCC ALLOYS AT THE ATOMIC SCALE |
| D9-P-TUE-P1-9 | Rafael Herschberg Basualdo ¹ , Dr. Frédéric Soisson ¹ , Dr. Chu Chun Fu ¹ , Dr. Maylise Nastar ¹ 'DEN-Service de Recherches de Métallurgie Physique, CEA, Université Paris-Saclay, Gif-sur-Yvette, France |
| D9-P-TUE-P1-10 | MECHANICAL BEHAVIOUR OF COATED T91 STEEL IN PBBI EUTECTIC |
| | Fosca Di Gabriele ¹ , Michal Chocholousek ¹ , Zbynek Spirit ¹ , Silvia Maria Deambrosis ² , Enrico Miorin ² , Francesco Montagner ² , Enrica Ricci ² , Espedito Vassallo ³ 1 CVR, Rez, Czech Republic, 2 IENI-CNR, Italy, 3 IFP-CNR, Italy |
| D9-P-TUE-P1-11 | ASSESSMENT OF 15-15 TI STABILIZED STAINLESS STEEL FAST REACTOR CLADDING MATERIAL PROPERTIES BY RING COMPRESSION TESTING |
| | Ing Hygreeva Kiran Namburi ¹ , D.Sc. (Tech) Stefan Holmström ² , Dr. Carlo Cristalli ³ , Dr. Rosario Giammusso ³ , Dr. Rémi Delville ⁴ , Ing. Michal Chocholousek ¹ |
| | ¹ Centrum Výzkumu Řež S. R. O., Husinec-rez, Czech Republic, ² European Commission, Joint Research Centre (JRC), Petten, Netherlands, ³ ENEA, Brasimone (BO), Italy, ⁴ SCK.CEN, Mol (BE), Belgium |
| D9-P-TUE-P1-12 | CHARACTERIZATION OF THE INDUCED MICROSTRUCTURE IN NEUTRON-IRRADIATED Fe-Cr-BASED MODEL ALLOYS |
| | Andreas Ulbricht ¹ , Frank Bergner ¹ , Andre Heinemann ² 'Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany, ² Heinz-Maier-Leibnitz Zentrum Garching and Helmholtz-Zentrum Geesthacht, Germany |

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TIME, 13,00-15,00 R00M, E0VER E1/M1

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| Pl Pl | Tuesday, September 19, 2017 |
| | Symposium D.9: Qualification and modelling of structural and fuel materials for sustainable nuclear reactors |
| D9-P-TUE-P1-13 | AB INITIO STUDY OF OXIDE LAYERS FORMED DURING STEEL CORROSION IN LEAD-COOLED FAST REACTORS |
| | Stefano Matteo Cervino ¹ , Elena Macerata ¹ , Massimo Angiolini ² , Pietro Agostini ² , Mario Mariani ¹ 'Nuclear Engineering Division, Department of Energy, Politecnico di Milano, Milano, ² ENEA, Fusion and Technology for Nuclear Safety and Security Department, Brasimone Research Centre, Camugnano |
| D9-P-TUE-P1-14 | COMPUTATIONAL STUDY OF DIFFUSION COEFFICIENTS IN Fe-Cr SPINEL WITHIN CORROSION PHENOMENA IN LEAD-COOLED FAST REACTORS |
| | Stefano Matteo Cervino ¹ , Elena Macerata ¹ , Massimo Angiolini ² , Pietro Agostini ² , Mario Mariani ¹ 'Nuclear Engineering Division, Department of Energy, Politecnico di Milano, Milano, , ² ENEA, Fusion and Technology for Nuclear Safety and Security Department, Brasimone Research Centre, Camugnano |
| | ALLOYING EFFECTS ON THE GROWTH MECHANISMS OF ZIRCONIUM ALLOYS UNDER IRRADIATION |
| D9-P-TUE-P1-15 | Benjamin Christiaen ^{1,2,3} , Dr Alexandre Legris ^{2,3} , Christophe Domain ^{1,2} , <u>Ludovic Thuinet</u> ^{2,3} , Antoine Ambard ^{1,2} |
| D7-F-10E-F1-13 | ¹ EDF-R&D, Département Matériaux et Mécanique des Composants (MMC), Les Renardières, F-77818 Moret sur Loing Cedex, France, ² Laboratoire commun EDF-CNRS Etude et Modélisation des Microstructures pour le Vieillissement des Matériaux (EM²VM), France, ³ Unité Matériaux Et Transformations, UMET, UMR 8207, ENSCL, Université Lille ¹ , 59655 Villeneuve d'Ascq, France |
| | ADAPTIVE KINETIC MONTE CARLO SIMULATION OF SIMULATED DEFECT MIGRATION IN MOX FUEL |
| D9-P-TUE-P1-16 | <u>Dr Mark Bankhead</u> ¹ , Miss Lucy Platts ¹ , Dr John Purton ² , Dr David Gunn ² |
| | 'National Nuclear Laboratory, Birchwood Park, Warrington, United Kingdom, 'STFC Daresbury Laboratory, Sci-Tech Daresbury, Warrington, United Kingdom |
| D9-P-TUE-P1-18 | STABILITY OF VACANCY LOOPS CLOSE TO SURFACES IN a-Fe FROM MOLECULAR DYNAMICS SIMULATIONS |
| | Emma Del Rio ¹ , Rosario Menendez-Alfonso ¹ , M.J. Aliaga ² , Manuel Perlado ¹ , M.J. Caturla ² 'Instituto de Fusion Nuclear - UPM, Spain, ² Departamento de Física Aplicada, Universidad de Alicante, Alicante, España, 'Bepartamento de Química Física, Universidad de Valencia, Valencia, Spain |
| D9-P-TUE-P1-19 | STRUCTURAL MATERIALS CROSS-CUTTING ISSUES BETWEEN GenIV AND GenII/III FISSION REACTORS AND FUSION ENERGY SYSTEMS |
| | Jana Kalivodova ¹ , Karl-Fredrik Nilsson ² , Marta Serrano ³ , Massimo Angiolini ⁴ , Cristelle Pareige ⁵ , Lorenzo Malerba6 |
| | 'Centrum výzkumu Řež s.r.o., Prague, Czech Republic, ² European Commission Joint Research Centre (JRC), Westerduinweg 3, 1755ZG Petten, The Netherlands, ³ Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Departamento de Tecnología, División de Materiales de Interés Energético, Avda. Complutense 22, 28040 Madrid, Spain, ⁴ ENEA Department for Fusion and Technologies for Nuclear Safety and Security, Rome, Italy, ⁵ Groupe de Physique des Matériaux, Université et INSA de Rouen, UMR 6634 CNRS Avenue de l'Université, BP 12, 76801 Saint Etienne du Rouvray, France, ⁶ Studiecentrum for Kernenergie • Centre d'études de l'énergie nucléaire (SCK•CEN), Boeretang 200, 2400 Mol, Belgium |
| D9-P-TUE-P1-20 | NEUTRON IRRADIATION INDUCED MICROSTRUCTURES IN FERRITIC/MARTENSITIC STEEL HT9 |
| | Ce Zheng¹, Elaina Anderson², Emmanuelle Marquis², <u>Djamel Kaoumi</u> ¹ ¹North Carolina State University, Raleigh, United States, ²University of Michigan, Ann Arbor, United States |

| | TIME: 13:00–15:00 ROOM: FOYER, E1/M1 |
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| P1 | Tuesday, September 19, 2017 |
| •• | Symposium D.10: Multiscale Modeling of Materials |
| | ATOMISTIC APPROACH OF INTERFACIAL POLYATOMIC SEGREGATION IN FCC METALLIC ALLOYS |
| D10-I-P-TUE-P1-1 | Balahouane Lezzar ¹ , Olivier Hardouin Duparc, Paidar Vaclav, Omar Khalfallah ¹Constantine University, Constantine, Algeria, ²LSI, École Polytechnique, 91128 Palaiseau Cedex, France, Paris, ³Institute of Physics ASCR, v.v.i., Prague, Czech Republic, Prague, ⁴University 1 (UC1), 25000 Constantine, Algeria, Constantine |
| | A ROUTE TO PERMANENT VALLEY POLARIZATION IN MONOLAYER MoS2 |
| D10-I-P-TUE-P1-2 | <u>Dr. Nirpendra Singh</u> ¹ , Dr Udo Schwingenschlogl ¹ King Abdullah University Of Science And Technology, Thuwal, Saudi Arabia |
| | EXTENDED MOMENT FORMATION IN MONOLAYER WS2 DOPED WITH 3D TRANSITION METALS |
| D10-I-P-TUE-P1-3 | <u>Dr. Nirpendra Singh</u> ¹ , Dr Udo Schwingenschlogl ¹ King Abdullah University Of Science And Technology, Thuwal, Saudi Arabia |
| D10-I-P-TUE-P1-4 | A NEW APPROACH TO MODELING BINDING ENERGY OF TRANSITION METAL NANOAGGREGATES (Nin, Fen, Con) FOR TECHNOLOGICAL APPLICATIONS |
| D10-1-1 -10E-1 1-4 | Miss Linda Achou ¹ ¹Badji-mokhtar University, Annaba, Algeria |
| | MODELING ANISOTROPIC GRAIN GROWTH IN NICKEL SUPERALLOYS |
| D10-I-P-TUE-P1-5 | Mr. Julien Fausty ¹ , Pr. Nathalie Bozzolo ¹ , Dr. Yuan Jin ² , Pr. Marc Bernacki ¹ 'Mines Paristech, Sophia Antipolis, France, 2Cenaero, Charleroi, Belgium |
| | MULTISCALE MODELING OF PRESSURE-ASSISTED SINTERING PROCESS |
| D10-I-P-TUE-P1-6 | Ph.D. Szymon Nosewicz ¹ , Prof. Jerzy Rojek ¹ , Ph.D. Marcin Maździarz ¹ , Prof. Piotr Kowalczyk ¹ , M.Sc. Krzysztof Wawrzyk ¹ , Ph.D. Marcin Chmielewski ² , Prof. Katarzyna Pietrzak ² 'Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland, 2Institute of Electronic Materials Technology, Poland |
| D10-I-P-TUE-P1-7 | STRUCTURE, DYNAMICS AND THERMODYNAMICS OF LIGAND-SOLVENT SYSTEM OF IMPORTANCE IN NUCLEAR FUEL CYCLE: INSIGHT FROM MD SIMULATION USING DFT DERIVED PARTIAL ATOMIC CHARGES |
| 51011102117 | Mr Arya Das ¹ , Mr Musharaf Ali ² ¹ Nuclear Recycle Board, Bhabha Atomic Research Centre, HBNI, Mumbai, India, 22Chemical Engineering Division, Bhabha Atomic Research Centre, HBNI, Mumbai, India |
| | DEVELOPMENT OF A NEW INTERATOMIC POTENTIAL FOR SI-U |
| D10-I-P-TUE-P1-8 | Dr Julian Fernandez ^{1,2,3} , Dr Maria Ines Pascuet ² , Dr Nicolas Castin⁶ ¹ Comision Nacional de Energia Atomica, Buenos Aires, Argentina, ² CONICET, Buenos Aires, Argentina, ³ UNSAM, Buenos Aires, Argentina, ⁴ Belgian Nuclear Research Centre, SCK•CEN, Mol, Belgium |
| | MULTISCALE SIMULATION FOR HYPERBRANCHED POLYMERIZATION |
| D10-I-P-TUE-P1-9 | Dr. Zidan Zhang¹, Jakub Krajniak², Prof. Dr. Erik Nies¹ ¹Comision Nacional de Energia Atomica, Buenos Aires, Argentina, ²CONICET, Buenos Aires, Argentina, ³UNSAM, Buenos Aires, Argentina, ⁴Belgian Nuclear Research Centre, SCK•CEN, Mol, Belgium |
| | SURFACE PROPERTIES OF BaFeO3 PEROVSKITE FROM FIRST PRINCIPLE CALCULATIONS |
| D10-I-P-TUE-P1-10 | Nadia Iles ¹ , Prof. Ulrich Aschauer ² , Prof. Paul Bowen ¹ 'Laboratory Of Thin Films Physics And Materials For Electronics, Oran 'University, Oran, Algeria, Oran, Algeria |
| | FREE ENERGY CALCULATIONS OF ADSORPTION OF SIMULATED BODY FLUID IONS ON THE RUTILE (110) SURFACE |
| D10-I-P-TUE-P1-11 | Ms. Azade Yazdan Yar ¹ , Prof. Ulrich Aschauer ² , Prof. Paul Bowen ¹ 'Laboratory of Powder Technology (LTP), Department of Materials Science and Engineering, EPFL, Lausanne, Switzerland, 'Department of Chemistry and Biochemistry, University of Bern, Bern, Switzerland |
| | MONTE CARLO SIMULATION OF GRAIN GROWTH IN COMMERCIALLY PURE TITANIUM |
| D10-I-P-TUE-P1-12 | <u>Dr Abdelhak Ayad</u> ^{1,2} , Doctorante Yousra Bassot ² , Pr Nadjet Rouag ² , Pr Francis Wagner ³ |
| | ¹ Département De Pharmacie, Faculté de Médecine, Université de Constantine 3, Nouvelle Vile Ali Mendjeli, Bp 67a, Algeria, ² Laboratoire des microstructures et défauts dans les matériaux, Université Frères Mentouri Constantine 1, Constantine, Algeria, ³ LEM3, (CNRS-UMR 7239),Université de Lorraine, Ile du Saulcy, 57045 Metz, France |

ROOM: FOYER, E1/M1

TIME: 13:00-15:00

| PI | Tuesday, September 19, 2017 |
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| • • | Symposium E.1: Hydrogen production, conversion, and storage |
| | SYNTHESIS AND CHARACTERISATION OF B-SUBSTITUTED NANOPOROUS CARBONS WITH HIGH ENERGY OF HYDROGEN ADSORPTION |
| E1-P-TUE-P1-1 | Katarzyna Walczak¹, dr Vanessa Coulet², dr Thomas Neisius³, prof Catherine Journet-Gautier⁴, dr Christophe Goze-Bac¹, dr Philip Llewellyn², Andrew Gillespie⁵, prof Peter Pfeifer⁵, prof Bogdan Kuchta², prof Lucyna Firlej¹ 1Laboratoire Charles Coulomb (L2C), UMR 5221 CNRS-Université de Montpellier, Montpellier, France, ²Laboratoire MADIREL, UMR 7246 CNRS-Aix-Marseille Université, Marseille, France, ³IM2NP, UMR 7334, CNRS-Aix-Marseille Université, Marseille, France, ⁴LMI, UMR 5615, Université Claude Bernard, Lyon, France, ⁵Department of Physics and Astronomy, University of Missouri, Columbia, USA |
| | ANION AND CATION EXCHANGE MEMBRANES FOR ENERGY CONVERSION: A COMPARISON |
| E1-P-TUE-P1-2 | <u>Professor Maria-Luisa Di Vona</u> ¹ , Dr Riccardo Narducci ^{1,2,3} , Mr Ivan Vito Ferrari ^{1,2,3} , Dr Emanuela Sgreccia ^{1,3} , Professor Philippe Knauth ^{2,3} |
| | ¹ University of Rome Tor Vergata, Roma, Italy, ² Aix Marseille University, Marseille, France, ³ International Associated Laboratory (L.I.A.), Ionomer Materials for Energy, Italy/France |
| | CARBONIZED POLYPYRROLE WITH DIFFERENT MORPHOLOGY AS ANODE MODIFIER IN MICROBIAL FUEL CELL |
| E1-P-TUE-P1-3 | <u>Dr Anca Dumitru</u> ¹ , Dr Silviu Vulpe ¹ , Dr Adrian Radu ¹ , Dr Corina Bradu ² , Dr. Sorin Avramescu ³ , Dr. Carmen Mariana Chifiriuc ² , Dr. Alina Olaru ² "University of Bucharest, Faculty of Physics, Magurele, Romania, "University of Bucharest, Faculty of Biology, Bucharest, Romania, "University of Bucharest, Faculty of Chemistry, Romania," |
| | OXIDATION AND HALIDE DOPING IN g-C3N4 AS VIABLE ROUTES TO IMPROVE THE PHOTOCATALYTIC PERFORMANCE |
| E1-P-TUE-P1-4 | Ambra Pisanu¹, Dr Andrea Bernasconi¹, Dr Chiara Milanese¹, Dr Antonella Profumo¹, Dr Andrea Speltini¹, Dr Michela Sturini¹, Dr Lorenzo Malavasi¹¹Università Di Pavia, Pavia, Italy |
| | HIGH-TEMPERATURE ELECTROLYSIS IN CO-GENERATION - PRELIMINARY EXPERIMENTAL RESULTS |
| E1-P-TUE-P1-5 | <u>DrIng. Karin Stehlík</u> ¹, ing. Martin Tkáč¹.² ¹Research Center Rez, Husinec-Rez, Czech Republic, ²University of Chemistry and Technology, Prague, Czech Republic |
| | DESIGN AND CHARACTERIZATION OF NOVEL GLASS-CERAMIC SEALANTS FOR SOLID OXIDE ELECTROLYSIS CELLS TECHNOLOGY |
| E1-P-TUE-P1-6 | Mr. Hassan Javed ¹ , Mr Kai Herbrig ² , Mr Christian Walter ² , Mr Antonio Gianfranco Sabato ¹ , Prof. Milena Salvo ¹ , Mr. Federico Smeacetto ¹ 1Politecnico Di Torino, Turin, Italy, ² Sunfire, GmbH, Dresden, Germany |
| | MODELLING THE EFFECT OF ADSORPTION AND ABSORPTION ON SURFACE SEGREGATION FOR BINARY ALLOYS IN HYDROGEN AND OTHER GAS ENVIRONMENTS |
| E1-P-TUE-P1-7 | <u>Dr. Amarante Bottger</u> ¹ , Dr. Meng Zhao ¹ 'Delft University of Technology, Netherlands |
| | SYNTHESIS OF MAGNESIUM HYDRIDE NANOPARTICLES ON CARBON MATERIALS FOR HYDROGEN STORAGE |
| E1-P-TUE-P1-8 | <u>Dr Wei Liu</u> ¹ , Dr Eki Setijadi Setijadi ¹ , Dr Ruben Bartali ¹ , Dr Nadhira Laidani ¹ , Dr Luigi Crema ¹ , Prof. Kondo-Francois Aguey-Zonsou ² , Dr Giorgio Speranza ^{1,3,4} |
| | ¹ Centre for Materials and Microsystems, Fondazione Bruno Kessler, Via Sommarive 18, 38123 Povo (TN), Italy, ² MERLin group, School of Chemical Engineering, The University of New South Wales, Sydney, NSW 2052, Australia, ³ Istituto Fotonica e Nanotecnologie – CNR, Via alla cascata 56, 38123 Trento, Italy, ⁴ Dep. Material Engineering, University of Trento, Via Mesiano 77, 38123 Trento, Italy |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
|----------------|---|
| P1 | Tuesday, September 19, 2017 |
| • • | Symposium E.2: Batteries and Supercapacitors |
| | NANOCOMPOSITE ELECTROLYTE MEMBRANE BASED ON SULFONATED GRAPHENE OXIDE FOR LITHIUM SULFUR CELLS |
| E2-P-TUE-P1-1 | Dr. Isabella Nicotera ¹ , Dr. Cataldo Simari ¹ , Prof. Cesare Oliviero Rossi ¹ , Dr. Apostolos Enotiadis ² , Dr. Sergio Brutti ³ |
| | ¹ University of Calabria, Rende (CS), Italy, ² National Center for Scientific Research "Demokritos", Athens, Greece, ³ University of Basilicata, Potenza, Italy |
| | SYNTHESIS, STRUCTURAL CHARACTERIZATION AND COMPLEX CONDUCTIVITY STUDY OF LIVO3 |
| E2-P-TUE-P1-2 | MSc Gregory Alexandridis ¹ , Dr Charalampos Sarafidis ¹ , Dr Aristotelis Kazakopoulos ² , Dr Orestis Kalogirou ¹ |
| | DI OLESTIS RATUGITOU: ¹Department Of Physics, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, ²Department of Electronic Engineering, Alexander Technological Educational Institute of Thessaloniki, Sindos, Greece, Sindos, Greece |
| | X-RAY ABSORPTION STUDIES OF ENERGY MATERIALS |
| E2-P-TUE-P1-3 | Professor Alan Chadwick ¹ ¹ University Of Kent, Canterbury, United Kingdom |
| | INSIGHTS ABOUT THE SIDE REACTIVITY UPON CYCLING OF A LTO-LFP Li-ION BATTERY |
| E2-P-TUE-P1-4 | <u>Dr. Sergio Brutti</u> ¹ , Dr. Jessica Manzi ¹ , Dr. Jiabril Gigli ² , Dr. Stefano Zilio ² , Dr. Alessandra Fernicola ² ¹ University Of Basilicata, Potenza, Italy, ² SAES Getters Spa, Lainate, Italia |
| 50 D THE D4 5 | A CARBON-COATED MIXED OLIVINE Li(Co1/3Fe1/3Mn1/3)P04 MATERIAL AS POSITIVE ELECTRODE IN LITHIUM CELLS |
| E2-P-TUE-P1-5 | <u>Dr. Sergio Brutti</u> ¹ , Dr. Jessica Manzi ¹ , Dr. Isaac Capone ¹ 'University Of Basilicata, Potenza, Italy |
| | DEFECT CHEMISTRY AND MIGRATION PROCESSES IN DISORDERED OXIDES |
| E2-P-TUE-P1-6 | MSc Apostolos Kordatos ¹ , Dr. Nikolaos Kelaidis ¹ , Dr. Stavros-Richard G. Christopoulos ¹ , Dr. David C. Parfitt ¹ , Dr. Alexander Chroneos ^{1,2} |
| | 1 Faculty of Engineering, Environment and Computing, Coventry University, Coventry CV1 5FB, United Kingdom, 2 Department of Materials, Imperial College London, South Kensington Campus, London SW7 2AZ, United Kingdom |
| | COBALT HEXACYANOFERRATE AS CATHODE FOR SODIUM ION BATTERIES |
| E2-P-TUE-P1-7 | Francesco Mazzali ¹ , Prof Serena Margadonna ¹ 'Materials Research Centre, Swansea University, Swansea, United Kingdom |
| | CARBON HETEROSTRUCTURES BASED ON GRAPHENE OXIDE FOR LITHIUM-SULFUR BATTERY APPLICATIONS |
| E2-P-TUE-P1-8 | <u>Dr. Apostolos Enotiadis</u> ¹ , PhD student Lamprini Boutsika ¹ , Dr. Isabela Nicotera ² , PhD student Cataldo Simari ² , Dr. Sergio Brutti ³ , Dr. Kostantinos Spyrou ⁴ , PhD student Eleni Thomou ⁴ , |
| | Dr. Georgia Charalambopoulou ¹ , Dr. Theodore Steriotis ¹ |
| | 1National Center for Scientific Research "Demokritos", Athens, Greece, ² Department of Chemistry and Chemical Tech., University of Calabria, Rende, Italy, ³ Department of Science, University of Basilicata, Potenza, ITALY, ⁴ Department of Materials Science & Engineering, University of Ioannina, Ioannina, Greece |
| | MOROCCAN DATE PITS DERIVED ACTIVATED CARBON AND THEIR PERFORMANCE EVALUATION AS ANODE MATERIAL FOR SODIUM-ION BATTERIES |
| FO D THE D1 O | <u>Dr Ilham El Aboudi</u> ¹, Ilyasse Izanzar², Ismail Saadoune², David Talaga³, Odile Babot³, Laurent Servant³ |
| E2-P-TUE-P1-9 | **University Cadi Ayyad, Laboratory of Condensed Matter and Nanostructures (LCMN), Faculty of Sciences and Technology Guèliz, BP 549, Av Abdelkarim Elkhattabi, Marrakech, Morocco, *University Cadi Ayyad, Laboratory of Chemistry and Environment (LCME), Faculty of Sciences and Technology, Guèliz, BP 549, Av Abdelkarim Elkhattabi, Marrakech, Morocco, *University of Bordeaux, Institute of Molecular Sciences, Group of Molecular Spectroscopy, UMR5255, BP 351, Cours de la Libération, Talence, France |
| | HYBRID ULTRACAPACITOR-BATTERY ENERGY STORAGE SYSTEM WITH GRAPHENE/CLAY COMPOSITE |
| E2-P-TUE-P1-10 | Wisly Truong¹¹¹Labex-sigmalim / Spcts Cec, Limoges, FRANCE |
| | NEW AROMATIC POLYMER ELECTROLYTES FOR APPLICATION IN LITHIUM METAL BATTERIES |
| | Michele Braglia ^{1,2} , Dr. Vincent Morizur ³ , Dr. Sandra Olivero ³ , Dr. Jean-Roger Desmurs ⁴ , |
| E2-P-TUE-P1-11 | <u>Dr. Philippe Knauth</u> ^{1,2} , Dr. Elisabet Dunach ³ |
| | ¹ Aix Marseille Univ, CNRS, Madirel, Marseille, France, ² International Associated Laboratory LIME, Marseille and Rome, France and Italy, ³ Institut de Chimie de Nice, Univ Nice Sophia Antipolis, CNRS, Nice, France, 4CDP Innovation, Lyon, France |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P1 | Tuesday, September 19, 2017 |
| - | Symposium E.2: Batteries and Supercapacitors |
| | THERMODYNAMICS OF LIQUID LI-SB ALLOYS, EXPERIMENT VS MODELING |
| E2-P-TUE-P1-12 | Sylwia Terlicka ¹ , Marcela E. Trybula ^{1,2} , Przemyslaw Fima ¹ 'Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Krakow, Poland, 2Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, Sweden |
| E2-P-TUE-P1-13 | ELECTROCHEMICAL IMPEDANCE STUDY ON ESTIMATING THE CAPACITY OF THE ELECTRIC DOUBLE LAYER SUPERCAPACITORS |
| EZ-F-10E-F1-13 | <u>Dr. Evgeny Kharanzhevskiy</u> ¹ , Tatiana Pisareva ¹ , Francisco Carrasco-Marín ² 'Udmurt State University, , Russian Federation, 22University of Granada 18071 Spain Granada Fuente Nueva |
| | ELECTROMOTIVE FORCE MEASUREMENTS IN THE Ag-Li-Sb SYSTEM |
| E2-P-TUE-P1-14 | Msc Monika Bugajska¹, PhD Przemysław Fima¹¹Institute Of Metallurgy and Materials Science. Polish Academy of Sciences, Cracow, Poland |
| E2-P-TUE-P1-15 | NEW INTERMETALLIC ANODE MATERIALS FOR LITHIUM ION BATTERIES: EXPERIMENTAL INVESTIGATION OF THE Li-Sb-Sn System |
| EZ-F-10E-F1-13 | Msc Patric Berger ¹ , Univ.Prof. Dr. Hans Flandorfer ¹ 'University of Vienna, Department of Inorganic Chemistry - Functional Materials, Vienna, Austria |
| | IMPROVED TRANSPARENT CONDUCTORS BY SPUTTERING OF ITO ON POLYMERIC SUBSTRATES FOR ELETTRO-OPTICAL DEVICE |
| E2-P-TUE-P1-16 | Ph.dr Marco Castriota ¹ , Dr.Ssa Alessia Marino ² , Ph.Dr. Angela Fasanella ¹ , Ph.Dr. Emanuela Bruno ² , Ph.Dr. Maria P. De Santo ¹ , Prof. Carlo Versace ¹ , Ph.Dr. Giovanni De Filpo ³ , Prof. Enzo Cazzanelli ¹ ¹ Physics Department-University of Calabria, Via P. Bucci Cubo 31C Rende, Italy, ² Notredame s.r.l., c/o Dipartimento di Fisica, Università della Calabria, RENDE 87036, ITALY, ³ Dipartimento di Chimica e Tecnologie Chimiche, Università della Calabria, Ponte P. Bucci, RENDE 87036, ITALY |
| | INTERDIGITATED FLEXIBLE LI-ION BATTERY BY AEROSOL JET PRINTING |
| E2-P-TUE-P1-17 | <u>Dr Yohann Thomas</u> ¹ , Sébastien Solan ¹ 'Cea, Grenoble, France |
| | AMORPHOUS LICUPO4 THIN FILMS AS A CATHODE MATERIAL FOR LI-Ion BATTERIES |
| E2-P-TUE-P1-18 | Visensia Ade Sugiawati ¹ , Florence Vacandio ¹ , Philippe Knauth1, <u>Thierry Djenizian²</u> ¹ Aix-Marseille University, Marseille, France, ² Ecole Nationale Supérieure Des Mines de Saint-Etienne, Gardanne, France |
| | ON THE EFFECT OF THE CARBON CONTENT IN THE DISCHARGE CAPACITY OF IRON ELECTRODES FOR IRON-AIR BATTERIES |
| E2-P-TUE-P1-19 | Dr. Cinthia Alegre ¹ , Horacio A. Figueredo-Rodriguez ² , Dr Rachel D. McKerracher ² , Dr Carlos Ponce de León ² , Dr Antonino S. Aricò ¹ , <u>Dr Vincenzo Baglio¹</u> 'Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" (CNR-ITAE), 98126 Messina (Italy) 'Electrochemical Engineering Laboratory, Engineering Sciences, University of Southampton, Highfield, Southampton, S017 1BJ, UK |
| | PFG-NMR STUDY OF ION TRANSPORT PROPERTIES IN SINGLE LITHIUM-ION CONDUCTING SOLID POLYMER ELECTROLYTES BASED ON NAFION |
| E2-P-TUE-P1-20 | Isabella Nicotera ¹ , Cataldo Simari ¹ , Cesare Oliviero Rossi ¹ , Luigi Coppola ¹ , Giuseppe Antonio Ranieri ¹ 'University Of Calabria, Rende (CS), Italy |
| | SULFIDE-BASED SOLID ELECTROLYTES FOR ADVANCED ALL-SOLID-STATE LITHIUM CELL CONFIGURATIONS |
| E2-P-TUE-P1-21 | Giovanna Maresca¹, Dr Akiko Tsurumaki¹, Dr Seitaro Ito², Professor Stefania Panero¹, Dr Yuichi Aihara², Dr Maria Assunta Navarra¹ ¹Sapienza University Of Rome, Rome, Italy, 2Samsung R&D Institute Japan, Osaka, Japan |
| | EFFECT OF THE INTERSLAB DISTANCE ON THE PERFORMANCE OF Ni-Co LAYERED DOUBLE HYDROXIDES AS ENERGY STORAGE ELECTRODE MATERIALS |
| E2-P-TUE-P1-22 | Mr. Alberto Adán-Más ^{1,2} , Ms. Celine Tang ¹ , Prof. Fátima Montemor ² , Prof. Liliane Guerlou-Demourgues ¹ 'ICMCB, Université De Bordeaux, Bordeaux INP, Bordeaux, France, 2Centro Química Estrutural, DEQ, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal |
| | EFFECTS OF TITANIUM DIOXIDE THIN FILMS IN ASYMMETRICAL ELECTROCHROMIC DEVICES |
| E2-P-TUE-P1-23 | Ph.dr Marco Castriota ¹ , Ph.Dr. Maria P. De Santo ¹ , Ph.Dr. Angela Fasanella ¹ , Prof. Enzo Cazzanelli ^{1,2} , Prof. Riccarco C. Barberi ¹ |
| | ¹ Physics Department-University of Calabria , Via P. Bucci Cubo 31C Rende, Italy, 2Notredame Srl, C/O Dipartimento di Fisica -Università della Calabria via P. Bucci Cubo 33B Rende, Italy |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| DI | Tuesday, September 19, 2017 |
| - | Symposium E.2: Batteries and Supercapacitors |
| E2-P-TUE-P1-24 | ULTRAFAST IONIC LIQUID-ASSISTED MICROWAVE SYNTHESIS OF SnO MICROFLOWERS AND THEIR SUPERIOR SODIUM STORAGE PERFORMANCE |
| | Bingsheng Qin ^{1,2} , Doctor Alberto Varzi ^{1,2} , Huang Zhang ^{1,2} , Doctor Thomas Diemant ³ , Doctor Dorin Geiger ³ , Rinaldo Raccichini ¹ , Professor Jürgen Behm ³ , Professor Ute Kaiser ³ , Professor Stefano Passerini ^{1,2} |
| | ¹ Helmholtz Institute Ulm, Ulm, Germany, ² Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, ³ University of Ulm, Ulm, Germany |
| | MgCo204 SYNTHESIZED VIA ELECTRODEPOSITION METHOD AND ITS SUPERCAPACITOR PERFORMANCE |
| E2-P-TUE-P1-25 | Mr Abdulhamit Aydin ¹ , Prof Dr. Rudolf Holze 'AG Elektrochemnie, Institute of Chemistry, Chemnitz University of Technology, Chemnitz, Germany |
| E2-P-TUE-P1-26 | POROUS MnCo204 AS SUPERIOR ANODE MATERIAL THAN NANOPARTICLES MnCo204 FOR RECHARGEABLE LITHIUM ION BATTERIES |
| | Dr. Alok Kumar Rai¹ ¹Amity University, Noida, New Delhi, India, Noida, India |
| E2-P-TUE-P1-27 | MICRON-SIZED BI-Sb-TE TERNARY ALLOY AS HIGH CAPACITY ANODE MATERIAL FOR SODIUM-ION BATTERIES |
| | Marcin Orzech ¹ , Professor Serena Margadonna ¹ ¹ College of Engineering, Swansea University, Swansea, United Kingdom |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|---------------|---|
| P1 | Tuesday, September 19, 2017 |
| rı . | Symposium E.3: Materials for Energy harvesting |
| E3-P-TUE-P1-1 | SPECTRO-ELLIPSOMETRIC STUDY OF NON-HYDROGENATED AMORPHOUS SILICON THIN FILMS FOR LOW-COST PHOTOVOLTAIC APPLICATIONS |
| | <u>Sr Elías Saugar</u> ¹ , Dr Susana María Fernández ¹ , Dr José Javier Gandía ¹ , Dr Emilio Márquez ² , Dr Eduardo Blanco ² |
| | ¹ Energy Department, CIEMAT, Madrid, Spain, 2Condensed Matter Physic Department, Universidad de Cádiz, Cádiz, Spain |
| F0 D THE D1 0 | ELECTRONIC AND GAP PROPERTIES OF LEAD-FREE PERFECT AND MIXED HYBRID HALIDE PEROVSKITES: AN AB-INITIO STUDY |
| E3-P-TUE-P1-2 | Athanasios Koliogiorgos ¹ , Prof. Dr Sotirios Baskoutas ¹ , <u>Prof. Dr. Iosif Galanakis</u> ¹ 'Department of Materials Science, University Of Patras, Patras, Greece |
| | ELECTRICAL AND OPTICAL PROPERTIES OF Cu(In,Ga)Se2 THIN FILMS GROWN BY PULSED LASER DEPOSITION |
| E3-P-TUE-P1-3 | Mrs. Christiana Nicolaou ¹ , Mrs. A. Zacharia ² , Dr. G. Itskos ² , Dr. J. Giapintzakis ¹ |
| | ¹ University Of Cyprus, Department Of Mechanical And Manufacturing Engineering, Nicosia, Cyprus, ² Experimental Condensed Matter Physics Lab, Department of Physics, University of Cyprus, Nicosia, Cyprus |
| | ZT ENCHANTMENT IN HOT-DEFORMED P-TYPE BI0.5SB1.5TE3 BULK ALLOYS |
| E3-P-TUE-P1-4 | <u>Dr Elli Symeou</u> ¹ , Ms Ioanna Ioannou ¹ , Mrs Christiana Nicolaou ¹ , Dr Theodora Kyratsi ¹ , Dr Ioannis Giapintzakis ¹ 'University Of Cyprus, Nicosia, Cyprus |
| | Sn,Zn OXIDE BASED THIN FILMS DEPOSITED BY MOCVD USING AN HETERONUCLEAR PRECURSOR FOR PHYSICAL APPLICATIONS |
| E3-P-TUE-P1-5 | Dr. Nathalie Prud'homme ¹ , Dr. Corinne Legros ¹ , Patrick Ribot ¹ , Dr. Diana Dragoe ¹ , Dr. David Berardan ¹ , Dr. Michel Andrieux ¹ , Dr. Hiroaki Uchiyama ² , Dr. Vadim G. Kessler ² , Dr. Gulaim A. Seisenbaeva ² "Université Paris Sud 11 (ICMMO/SP2M) UMR 8182, 91405 Orsay Cedx, France, Department of Chemistry, SLU, Box 7015, 75007 Uppsala, Sweden |
| | STRUCTURAL TRENDS IN CHALCOPYRITE BASED INTERMEDIATE BAND ABSORBER MATERIALS |
| E3-P-TUE-P1-6 | Julien Marquardt ^{1,2} , Prof. Dr. Christiane Stephan ^{2,3} , Prof. Dr. Susan Schorr ^{1,2} |
| | ¹Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ²Freie Universität Berlin, Berlin, Germany, ³Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| PI | Tuesday, September 19, 2017 |
| | Symposium E.3: Batteries and Supercapacitors |
| | SOLID-STATE PHOTOELECTROCHEMICAL CELL WITH TANTALUM NITRIDE/OXYNITRIDE NANOTUBES AS THE PHOTOANODE |
| E3-P-TUE-P1-7 | Mr. Kaiqi Xu¹, Dr. Athanasios Chatzitakis¹, Dr. Tor Bjørheim¹, Dr. Truls Norby¹, Dr. Juan Yang², Dr. Sen Mei², Dr. Mathieu Grandcolas², Dr. Christian Simon² ¹University of Oslo, Centre for Materials Science and Nanotechnology, Oslo, Norway, ²SINTEF Materials and Chemistry, Department of Materials and Nanotechnology, Oslo, Norway |
| | STABILITY OF SILICON SOLAR CELLS: A COMPARISON BETWEEN MONOCRYSTALLINE AND AMORPHOUS SILICON UNDER HIGH AND LOW IRRADIATION |
| E3-P-TUE-P1-8 | Dr. Ana Milena Cruz Rodríguez ¹ , MSc Pau Boch-Jiménez ¹ , <u>Dr. Mónica Bratriz Della Pirriera</u> ¹ , Dr. Carolina Carbó ¹ , Rubén Roldán ² 'Leitat Technological Center, Terrassa, Spain, 2EMPA Materials Science and Technology, Dübendorf, Switzerland |
| | STRUCTURAL ANALYSIS OF HYBRID PEROVSKITE CH3NH3Pbi3-xBrx SOLID SOLUTION |
| E3-P-TUE-P1-9 | <u>Frederike Lehmann</u> ¹ , Dr. Alexandra Franz ¹ , Dr. Daniel M. Többens ¹ , Prof. Dr. Susan Schorr ^{1,3} ¹ Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany, ² Universität Potsdam, Potsdam, Germany, ³ Freie Universität Berlin, Berlin, Germany |
| 50 D THE D4 40 | OPTICAL AND COMPOSITIONAL INVESTIGATIONS OF IN-SITU SPUTTER DEPOSITED INDIUM SULPHIDE BUFFER LAYERS ON Cu(IN,GA)Se2 SOLAR CELLS |
| E3-P-TUE-P1-10 | <u>Dr. Oana Cojocaru-Miredin</u> ¹ , M. Sc. Purvesh Soni ¹ , Dr. Birger Birghoff ² , Prof. Joachim Knoch ² ¹ Rwth Aachen University, Aachen, Germany, ² Institut für Halbleitertechnik, rwth Aachen University, Aachen, Germany |
| | SYNTHESIS, CHARACTERISATION AND OPTOELECTRONIC PROPERTIES OF THE HYBRID (CH ₃) ₃ SSnI ₃ PEROVSKITE |
| E3-P-TUE-P1-11 | <u>Dr. Andreas Kaltzoglou</u> ¹ , Dr. Georgios Manolis ¹ , Dr. Kyriakos Papadopoulos ¹ , Dr. Athanassios Kontos ¹ , Dr. Polycarpos Falaras ¹ *National Center for Scientific Research "DEMOKRITOS", Athens, Greece |
| | RAMAN SPECTROSCOPY AND ELECTRICAL PROPERTIES OF EARTH-ABUNDANT Zn3As2 FOR OPTOELECTRONIC DEVICES |
| E3-P-TUE-P1-12 | Mrs Andreana Daniil ¹ , Mr Martin Friedl ¹ , Mr Tim Burgess ² , Professor H. Hoe Tan ² , Professor Chennupati Jagadish ² , Dr Philippe Caroff ² , Professor Anna Fontcuberta i Morral ¹ 'École Polytechnique Féderale de Lausanne, Lausanne, Switzerland, 'The Australian National University, Canberra, Australia |
| | BINARY AND TERNARY TRANSITION METAL SILICIDES FOR HIGH-TEMPERATURE THERMOELECTRIC APPLICATIONS |
| E3-P-TUE-P1-13 | Mr Dimitrios Stathokostopoulos¹, Mrs Evangelia Tarani¹, Mrs Aikaterini Teknetzi¹, Dr Dimitrios Chaliampalias¹, Dr Sofia-Alexandra Tsipas², Prof Efstathios Polychroniadis¹, Associate Professor Eleni Pavlidou¹, Prof. Konstantinos Chrissafis¹, Assoc. Prof. Euripides Hatzikraniotis¹, Prof. Konstantinos Paraskevopoulos¹, Assoc. Prof. George Vourlias¹ ¹Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ²Departamento de Ciencia e Ingeniería de Materiales e Ingeniería Química, IAAB, Universidad Carlos III de Madrid, Madrid, Spain |
| | LOW TEMPERATURE SYNTHESIS AS A ROUTE FOR HIGHLY THERMOELECTRIC EFFICIENT Na-DOPED PbTe |
| E3-P-TUE-P1-14 | <u>Dr Crysi Papageorgiou</u> ¹ , Dr Andreas Delimitis ² , Dr. Ioannis Giapintzakis, Dr Elli Symeou ¹ , Dr Theodora Kyratsi ¹ |
| | ¹ Department of Mechanical and Manufacturing Engineering, University of Cyprus, 1678, Nicosia, Cyprus, ² Chemical Process & Energy Resources Institute (CPERI), Centre for Research and Technology Hellas (CERTH), 57001 Thermi, Thessaloniki, Greece |
| E3-P-TUE-P1-15 | EFFECT OF SINTERING CONDITIONS ON Mg2Si-BASED THERMOELECTRIC MATERIALS |
| | Mr George Mesaritis ^{1,2,3} ¹Dr.Elli Symeou, Nicosia, Cyprus, ²Dr.Nicolaos Vlachos, Nicosia, Cyprus, ³Dr.Theodora Kyratsi, Nicosia, Cyprus |
| | REFLECTION SPECTRA OF THE Bi1-xGdxFe03, Bi1-xNdxFe03 AND Bi1-x-yGdxLayFe03 SUBSTITUTED PEROVSKITES |
| E3-P-TUE-P1-16 | Prof. Dr. Susan Schorr ^{1,2} , Dr. Barys Korzun ^{3,4} , Dr. V. Sobol ⁴ , Dr. O. Mazurenko ⁵ , Dr. T. Bizhigitov ⁶ , Dr. S. Tomaev ⁶ |
| | ¹Helmholtz-Zentrum Berlin For Materials And Energy, Berlin, Germany, ²Freie Universitaet Berlin, Berlin, Germany, ³The City University of New York, New York, US, ⁴Belarus State Pedagogical University, Minsk, Belarus, ⁵Belarusian Republican Foundation for Fundamental Research, Minsk, Belarus, °Taraz State Pedagogical Institute, Taraz, Kazakhstan |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| DI | Tuesday, September 19, 2017 |
| P1 - | Symposium E.3: Batteries and Supercapacitors |
| | SYNTHETIC MANIPULATION OF HYBRID N-TYPE THERMOELECTRIC MATERIALS |
| E3-P-TUE-P1-17 | Dr. Katherine Ann Mazzio ^{1,2} , Marc Lindorf ³ , Prof. Dr. Manfred Albrecht ³ , Prof. Dr. Simone Raoux ^{1,2,4} ¹ Institut für Nanospektroskopie, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany, ² Energy Materials In-Situ Laboratory, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany, ³ Institut für Physik, Universität Augsburg, Augsburg, Germany, ⁴ Institut für Physik, Humboldt Universität zu Berlin, Berlin, Germany |
| | MICROSTRUCTURE STUDY ON LEAD CHALCOGENIDES THERMOELECTRIC MATERIALS |
| E3-P-TUE-P1-18 | E.C Stefanaki ¹ , E. Hatzikraniotis ¹ , M.G Kanatzidis ² , Th. Kyratsi ³ , P.M Nikolic ⁴ , K.M Paraskevopoulos ¹ 'Solid State Physics Section, Physics Department, Aristotle University of Thessaloniki, , Greece, ² Department of Chemistry, Northwestern University, Evaston, IL, United States, ³ Department of Mechanical & Manufacturing Engineering, University of Cyprus, 1678 Nicosia, Cyprus, ⁴ Institute of Technical Sciences of SASA, Knez Mihailova 35, 11000 Beograd, Serbia |
| | STRUCTURAL CHARACTERIZATION OF NANOCRYSTALLINE SI THIN FILMS, FOR SOLAR CELL APPLICATIONS, BY ELECTRON MICROSCOPY TECHNIQUES |
| E3-P-TUE-P1-19 | Mr Stavros Kozakos¹, Mr Nikolaos Vouroutzis¹, Mr Christos Lioutas¹, Mrs Violetta Gianneta², Mrs Androula Nassiopoulou² ¹Department of Physics, Aristotte University of Thessaloniki, GR-54124 Thessaloniki, Greece, ²NCSR Demokritos/INN, Terma Patriarchou Grigoriou, Aghia Paraskevi, 15310 Athens, Greece |
| | A HIGH RESOLUTION ELECTRON MICROSCOPY AND SPECTROSCOPY STUDY OF INTERFACES IN Si-BASED SOLAR CELL HETEROJUNCTIONS |
| E3-P-TUE-P1-20 | Dr Despoina Maria Kepaptsoglou ^{1,4} , <u>Dr Spyros Diplas</u> ^{2,3} , Professor Quentin Ramasse ^{4,5} , Associate Professor Anette Eleonora Gunnæs¹, Dr Alexander Ulyashin² ¹Physics Department/Center for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway, ²SINTEF Materials and Chemistry, OSLO, Norway, ³Department of Chemistry/Centre for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway, ³SupersTEM, Daresbury, United Kingdom, ³National Centre for Electron Microscopy, Lawrence Berkeley National Laboratory, Berkeley, United States of America |
| | A TEM AND XPS STUDY OF EPITAXIALLY GROWN AMORPHOUS HYDROGENATED SILICON IN SOLAR CELL STRUCTURES |
| E3-P-TUE-P1-21 | <u>Dr Spyros Diplas</u> ^{1,3} , Associate Professor Anette Eleonora Gunnæs², Dr Alexander Ulyashin¹ 'SINTEF MK, OSLO, Norway, ¹Department of Physics/Centre for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway, ³Department of Chemistry/Centre for Materials Science and Nanotechnology, University of Oslo, OSLO, Norway |
| | ON THE EVOLUTION OF PROPERTIES OF ITO LAYERS DEPOSITED ON CRYSTALLINE AND AMORPHOUS SI UPON HEAT TREATMENT |
| E3-P-TUE-P1-22 | Dr Despoina Maria Kepaptsoglou ^{1,4} , Dr Spyros Diplas ^{2,3} , Associate Professor Anette Eleonora Gunnæs ¹ , <u>Dr Alexander Ulyashin²</u> ¹ Department of Physics/Centre for Materials Science and Nanotechnology, University of Oslo, Oslo, Norway, ² SINTEF Materials and Chemistry, Oslo, Norway, ³ Department of Chemistry/Centre for Materials Science and Nanotechnology, University of Oslo, Oslo, Norway, ⁴ SuperSTEM, Daresbury, United Kingdom |
| | 3D COUNTER ELECTRODES FOR DYE SENSITIZED SOLAR CELLS WITH IMPROVED PERFORMANCE |
| E3-P-TUE-P1-23 | Post-doc Researcher George Syrrokostas ¹ , Phd candidate Aikaterini Govatsi ¹ , Associate Professor George Leftheriotis ² , Dr. Spyros Yannopoulos ¹ *FORTH/ICEHT, Patra, Greece, 2Physics Department, University of Patras, Patra, Greece |
| | EFFECTS OF Sr/La AND Ta/La co-DOPING ON THE DIELECTRIC PROPERTIES OF CaCu3Ti4012 |
| E3-P-TUE-P1-24 | <u>Dr. Eng. Rodrigo Espinoza</u> ¹ , Sorach Vidal ¹ ¹ Materials Science Department, FCFM, Universidad De Chile, Santiago, Chile |
| | CORROSION IN SOLAR THERMAL SYSTEMS: MATERIAL SELECTION AND PROTECTION |
| E3-P-TUE-P1-25 | <u>Dr. Ali Soleimani-Dorcheh</u> ¹ , Dr. Mathias Galetz ¹ ¹DECHEMA-Forschungsinstitut, Frankfurt Am Main, Germany |
| FO D THE DA CA | POROUS, REDOX OXIDE-BASED, CERAMIC STRUCTURES FOR EFFICIENT SOLAR ENERGY HARVESTING, TRANSFORMATION AND STORAGE |
| E3-P-TUE-P1-26 | <u>Christos Agrafiotis</u> ¹ , Martin Roeb ¹ , Christian Sattler ¹ ¹ Deutsches Zentrum für Luft- und Raumfahrt/German Aerospace Center - DLR, Linder Höhe, 51147, Köln, Germany |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 |
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| P1 | Tuesday, September 19, 2017 |
| PI — | Symposium F.1: Biomaterials for Tissue Engineering |
| | TOUGHENING OF POROUS CALCIUM PHOSPHATE SCAFFOLDS BY POLY(ε-CAPROLACTONE) COATINGS |
| F1-P-TUE-P1-1 | Dr. Sergey Dorozhkin¹ ¹N/A, Moscow, Russia |
| | MECHANICAL PROPERTIES OF DENTAL COMPOSITES MODIFIED HYDROXYAPATITE |
| F1-P-TUE-P1-2 | Zofia Kula ¹ , Hieronim Szymanowski ² 'Institute of Materials Science and Engineering, Łódź of University of Technology, ul. Stefanowskiego 1/15, 90-924 Łódź, Poland, Łódź, Poland, ² Institute of Materials Science and Engineering, Łódź of University of Technology, ul. Stefanowskiego 1/15, 90-924 Łódź, Poland, Łódź, Poland |
| | ANIONIC SURFACTANT TEMPLATING SYNTHESIS OF MESOSTRUCTURED HYBRID HYDROXYAPATITE |
| F1-P-TUE-P1-3 | José Miguel Blanco-Becares ¹ , Dr. Antonio J. Salinas ^{1,2} , Laura Casarrubios ³ , Daniel Fernández-Villa ³ , Dr. María José Feito ³ , Prof. María Teresa Portolés ³ , Dr. Blanca González ^{1,2} , Prof. María Vallet-Regí ^{1,2} 1 Facultad de Farmacia, Universidad Complutense De Madrid, Madrid, Spain, Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, Spain |
| | EFFECT OF HALLOYSITE NANOTUBE FUNCTIONALIZATION ON THERMAL AND MECHANICAL PROPERTIES OF POLY(∈-CAPROLACTONE) |
| F1-P-TUE-P1-4 | Ms Zoi Terzopoulou¹, Dr Dimitrios Bikiaris¹ ¹Laboratory of Polymer Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece |
| | MESOPOROUS HYDROXYAPATITE AND MESOPOROUS BIOACTIVE GLASSES, A NEW STRATEGY TO MIMIC THE INORGANIC COMPONENT OF BONE |
| F1-P-TUE-P1-5 | Giulia Molino ¹ , Sonia Fiorilli ¹ , Chiara Vitale-Brovarone ¹ 1Politecnico di Torino - Department of Applied Science and Technology, Turin, Italy |
| | TINB ALLOYS COVERED WITH Batio3 Layer enhanced cell proliferation and improved the vinculin and B1-integrin production |
| F1-P-TUE-P1-6 | M.Sc., Ph.D. Martin Plencner ¹ , M.Sc., Ph.D. Marta Vandrovcova ¹ , M.Sc., Ph.D. Premysl Vanek ² , M.Sc. Zdenek Tolde ³ , Assoc. Prof. Vladimir Stary ³ , Assoc. Prof. Lucie Bacakova ¹ **Institute Of Physiology, The Czech Academy Of Sciences, Prague, Czech Republic, **Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic, **Institute of Materials Engineering, Faculty of Mechanical Engineering, Prague, Czech Republic |
| | DESIGN AND CHARACTERISATION OF BIOMIMETIC SMART SCAFFOLDS FOR BONE APPLICATIONS |
| F1-P-TUE-P1-7 | Ms Giorgia Montalbano¹, Ms Giulia Molino¹, Ms Giorgia Novajra¹, Sonia Fiorilli¹, Giovanni Vozzi²,³, Carmelo De Maria²,³, Daniele Pasciuto¹, Gabriela Ciapetti⁴, Chiara Vitale-Brovarone¹¹¹Politecnico Di Torino - Department of Applied Science and Technology, Turin, Italy, ²University of Pisa - Dipartimento di Ingegneria dell'Informazione, Pisa, Italy, ³Research Center "E. Piaggio" - University of Pisa, Pisa, Italy, 4Istituto Ortopedico Rizzoli - Laboratorio di Fisiopatologia Ortopedica e Medicina Rigenerativa, Bologna, Italy |
| | MODIFICATION OF THE ULTRA-FINE GRAINED TITANIUM SURFACE BY CHEMICAL ETCHING AND ATOMIC LAYER DEPOSITION (ALD) TO PRODUCE BIOACTIVE COATING |
| F1-P-TUE-P1-8 | <u>Denis Nazarov</u> ¹, Elena Zemtsova¹, Alexandr Solokhin¹, Vladimir Smirnov¹, Ruslan Valiev¹ 'Saint Petersburg State University, Saint-Petersburg, Russian Federation |
| | CONTROLLING THE DEGRADATION RATE OF MAGNESIUM FOAMS OBTAINED BY POWDER METALLURGY METHODS |
| F1-P-TUE-P1-9 | Dr. Sandra C. Cifuentes ¹ , Mr. Luis Arias ^{1,2} , Dr. Elena Gordo ¹ , <u>Dr. Sophia A. Tsipas</u> ¹ ¹ Universidad Carlos III de Madrid, IAAB, Escuela Politécnica Superior, Leganes 28911, Spain, 2Tecnológico de Coasta Rica, Escuela de Ciencia e Ingeniería en Materiales, Cartago, Costa Rica |
| | NANOCOMPOSITE BIOACTIVE SCAFFOLDS WITH MULTIPLE DELIVERY CAPABILITIES FOR BONE TISSUE REGENERATION |
| F1-P-TUE-P1-10 | Gregorio Guerrero ¹ , Dr Juan Pablo Cattalini ¹ , Kai Zheng ² , Prof. <u>Aldo R. Boccaccini²</u> , Prof. Dr. Viviana Mouriño ^{1,3} 1 Universidad de Buenos Aires, Argentina, 2 University of Erlangen-Nuremberg, , Germany, 3 CONICET, , Argentina |
| | GLASSES IN THE Na20 (K20)-Ca0-Mg0-Si02-P205-CaF2 SYSTEM AND THEIR DEVITRIFICATION BEHAVIOR |
| F1-P-TUE-P1-11 | PhD Student Konstantinos Dimitriadis ¹ , Professor Michael Karakassides ¹ , Professor Dilshat Tulyaganov ² , <u>Associate Professor Simeon Agathopoulos¹</u> 'Materials Science and Engineering Department, University of Ioannina, Greece, ² Turin Polytechnic University of Tashkent, Uzbekistan |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| DI | Tuesday, September 19, 2017 |
| F1 | Symposium F.1: Biomaterials for Tissue Engineering |
| | DUAL SYRINGE ELECTROSPINNING-ELECTROSPRAYING SYSTEM FOR CARDIOVASCULAR STENTS |
| F1-P-TUE-P1-12 | Ms Veroniki Bakola ¹ , Ms. Varvara Karagkiozaki ^{1,2} , Ms. Fotini Pappa ^{1,2} , Ms. Aikaterini-Rafailia Tsiapla ¹ , Ms. Eleni Pavlidou ³ , Ms. Theodora Choli-Papadopoulou ⁴ , Mr. Ioannis Moutsios ¹ , Mr. Stergios Logothetidis ¹ ¹ Nanomedicine Group, Lab for "Thin Films- Nanomaterials, Nanosystems & Nanometrology", Department of Physics, Aristotle University of Thessaloniki, Greece, Thessalonik |
| | FABRICATION OF THREE-DIMENSIONAL BIODEGRADABLE CELLULOSE ACETATE SCAFFOLDS LOADED WITH DEXAMETHASONE DRUG FOR BONE IMPLANTS |
| F1-P-TUE-P1-13 | Mrs. Aikaterini-Rafailia Tsiapla¹, Mrs. Varvara Karagkiozaki¹,², Mrs. Fotini Pappa¹,², Mrs. Veroniki Bakola¹, Mrs. Eleni Pavlidou³, Mrs. Theodora Choli-Papadopoulou⁴, Mrs. Panagiwta Gkertsiou¹, Mr. Stergios Logothetidis¹¹Lab for "Thin Films- Nanosystems & Nanometrology", Nanomedicine Group, Department of Physics, Aristotle University of Thessaloniki, Greece, ¹BL Nanobiomed P.C. Thessaloniki, Greece, Thessaloniki, Greece, ³Department of Physics, Aristotle University of Thessaloniki, Greece, Thessalonik |
| | EFFECT OF BITING PATTERNS ON STEM CELL DIFFERENTIATION AND PROLIFERATION IN THE CERVICAL LOOP OF THE INCISOR IN MICE |
| F1-P-TUE-P1-14 | <u>Alexander Tsouknidas</u> ¹ , Lucia Jimenez-Rojo ² , Nikolaos Michailidis ¹ , Thimios Mitsiadis ² |
| | ¹ Physical Metallurgy Laboratory, Department of Mechanical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Institute of Oral Biology, University of Zurich, Plattenstrasse 11, CH-8032, , Switzerland |
| | EXTRACTION OF KERATIN FROM SUSTAINABLE CHICKEN FEATHER COMPONENTS |
| F1-P-TUE-P1-15 | Phd Candidate Firoozeh Pourjavaheri ¹ , Associate Professor Oliver A.H. Jones ¹ , Adjunct Associate Professor Frank Sherkat ¹ , Associate Professor Arun Gupta ² , Prof. Emeritus Dr Robert A. Shanks ¹ ¹ Rmit University, Melbourne, Australia, ² Universiti Malaysia Pahang, Kuantan, Malaysia |
| | DEALLOYING-BASED NANOCOMPOSITES: TOWARDS A NEW GENERATION OF IMPLANT BIOMATERIALS |
| F1-P-TUE-P1-16 | <u>Dr. Ilya Okulov</u> ^{1,2} , Mr. Artem Okulov ^{1,3} , Assoc. Prof. Takeshi Wada ² , Prof. Hidemi Kato ² , Prof. Jörg Weissmüller ^{1,4} , Dr. Jürgen Markmann ^{1,4} *Institute of Materials Research, Materials Mechanics, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany, *Institute for Materials Research, Tohoku University, Katahira 2-1-1, Sendai 980-8577, Japan, *Institute of Metal Physics, Ural Division of the Russian Academy of Sciences, Ekaterinburg, Russian Federation, *Institute of Materials Physics and Technology, Hamburg University of Technology, Hamburg, Germany |
| | CARDIAC PROGENITOR CELLS RESPONSE TO BLOW-SPUN SCAFFOLD MODIFIED BY POLYELECTROLYTE MULTILAYER FILMS |
| F1-P-TUE-P1-17 | Phd Aldona Mzyk¹, MSc Michał Wojasiński², PhD Piotr Natkański³ |
| | ¹ Institute of Metallurgy And Materials Science Pas, Krakow, Poland, ² of Biotechnology and Bioprocess Engineering, Faculty of Chemical and Process Engineering, Warsaw University of Technology, Warsaw, Poland, ³ Faculty of Chemistry, Jagiellonian University, Krakow, Poland |

| | IIME: 13:00-15:00 ROUM: FUYER, EI/MI |
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| P1 | Tuesday, September 19, 2017 |
| | Symposium F.4: The Next Generation of Implants with Multi-functional Properties: Advanced Synthesis, Processing and Surface Modification Methods for Biomaterials |
| F4-P-TUE-P1-1 | NEAR-SURFACE MICROSTRUCTURAL AND MICRO-MECHANICAL PROPERTIES CHANGES OCCURRED IN A BIOCOMPATIBLE TI-Nb-Zr-Fe-O GUM-TYPE ALLOY BY SMAT (SURFACE MECHANICAL ATTRITION TREATMENT) PROCESSING |
| | Dr. Doina Raducanu ¹ , Dr. Vasile Danut Cojocaru ¹ , Dr. Anna Nocivin ² , Dr. Mariana Lucia Angelescu ¹ , Eng. Ioan Dan ³ , Eng. Elisabeta Mirela Cojocaru ¹ , Dr. Ion Cinca ¹ "University Politehnica of Bucharest, Bucharest, Romania, ² OVIDIUS University of Constanta, Constanta, Romania, ³ SC R&D Cosnultanta si Servicii SRL, Bucharest, Romania |
| F4-P-TUE-P1-2 | MEDICAL IMPLANTS FROM NANOSTRUCTURED TI WITH ENHANCED BIOACTIVE PROPERTIES |
| | <u>Dr Elena Zemtsova</u> ¹ , PhD Denis Nazarov ¹ , Prof. Ruslan Valiev ¹ , Prof. Vladimir Smirnov ¹ 'Saint Petersburg State University, Saint Petersburg, Russia |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|---------------|---|
| PI | Tuesday, September 19, 2017 |
| rı | Symposium F.4: The Next Generation of Implants with Multi-functional Properties: Advanced Synthesis, Processing and Surface Modification Methods for Biomaterials |
| | INFLUENCE OF AGING TIME IN THE SYNTHESIS OF HYDROXYAPATITE BY THE SOL-GEL METHOD USING CHICKEN EGGS SHELLS AS CALCIUM PRECURSOR |
| F4-P-TUE-P1-3 | <u>Dr Jose Brant de Campos</u> ¹, Dr Marilza Sampaio Aguilar², Dr Bruno Cavalcante di Lello², Dr Francisco José Moura³, Miss Nathaly Cristiane de Campos³ ¹Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, ²Universidade Estácio de Sá, Rio de Janeiro, Brazil, ³PUC-Rio, Rio de Janeiro, Brazil |
| | CALCIUM-PHOSPHATE COATINGS BY ELECTROSTATIC SPRAY DEPOSITION |
| F4-P-TUE-P1-4 | <u>Dr Laurent Gremillard</u> ¹ , Dr Solène Tadier ¹ , Pr. Elisabeth Djurado ^{2,3} , Dr. Rakesh Sharma ^{2,3} 'Insa-Iyon, Cnrs, Villeurbanne, France, ² Univ. Grenoble Alpes, LEPMI, Grenoble, France, ³ CNRS, LEPMI, Grenoble, France |
| | EVALUATION OF STRUCTURAL MODIFICATION OF CONVENTIONAL AND CROSSLINKED PE-UHMW ACETABULAR LINERS AFTER IN VIVO USE |
| F4-P-TUE-P1-5 | Prof. Vasiliki-Maria Archodoulaki ¹ , Anna LASKA ² , Aysenur ORS UNSAL ¹ , Dr. Bernadette DUSCHER ¹ 1TU Wien (Vienna University of Technology), Vienna, Austria, ² Lodz University of Technology, Lodz, Poland |
| | MAGNETIC POLYMER MICROSPHERES OF PHBV WITH SURFACE MODIFIED SPIONS FOR BIOMEDICAL APPLICATION |
| F4-P-TUE-P1-6 | Dr. Maizlinda Izwana Idris ^{1,2} , Dr. rer. nat. Jan Zaloga ³ , Professor Dr. med. Christoph Alexiou ³ , <u>Professor DrIng. habil. Aldo Roberto Boccaccini</u> ¹ ¹TU Wien (Vienna University of Technology), Vienna, Austria, ²Lodz University of Technology, Lodz, Poland |
| | ON THE DESIGN OF LOW RIGIDITY BIOCOMPATIBLE TI-XNB (0 < X< 35) ALLOYS BY DENSITY FUNCTIONAL THEORY CALCULATIONS |
| F4-P-TUE-P1-7 | <u>Dr Julio Gutierrez Moreno</u> ^{1,2} , Dr Dimitris G. Papageorgiou ¹ , Dr Christina Lekka ¹ , Prof Georgios A. Evangelakis ³ |
| | ¹ Department of Materials Science and Engineering. University of Ioannina, Ioannina, Greece, ² Tyndall National Institute. University College Cork, Cork, Ireland, ³ Department of Physics. University of Ioannina, Ioannina, Greece |
| | MICROSTRUCTURE CHARACTERIZATION AND MECHANICAL PROPERTIES OF HOMOGENIZED TI-Nb-Mo-Zr alloys for biomedical application |
| F4-P-TUE-P1-8 | Aline Raquel Vieira Nunes ¹ , Gabriel Sinara Borborema ¹ , Luiz Henrique de Almeida ¹ 'Universidade Federal do Rio de Janeiro, Rio de Janeiro - RJ, 21.941-972, Brazil |
| | DESING OF NEW BIOCOMPATIBLE TI-BASED AMORPHOUS METALLIC COATINGS WITH LOW YOUNG'S MODULUS FOR DENTAL IMPLANTS |
| F4-P-TUE-P1-9 | Doctor Emilio Frutos Torres ¹ , Doctor Tomas Polcar ² ¹ Department of Control Engineering, Faculty of Electrical Engineering, Czech Technical University in Prague, Prague, Czech Republic, ² Engineering Materials, University of Southampton, Southampton, United Kingdom |

TIME: 13:00-15:00 R00M: F0YER, E1/M1

Tuesday, September 19, 2017

Symposium G.1: Competences and basic knowledge in the ICTER

A SERVICE-LEARNING EXPERIENCE IN MATERIALS SCIENCE CORE COURSES FOR ENGINEERS: THE PROJECT AND THE PERCEPTION OF THE STUDENTS

G1-P-TUE-P1

Dr. Teresa Guraya¹, Dr. Luis Cabedo², Dr. María Lidón Moliner², Mrs. Marta Royo², Dr. Igor Puerto¹, Dr. Esperanza Diaz-Tajada¹

'University Of The Basque Country, Bilbao, Spain, ²University Jaume I, Castellón, Spain

TIME: 13:00-15:00 ROOM: FOYER, E1/M1

Tuesday, September 19, 2017

Symposium G.2: Key material fields for modern curricula

A SUSTAINABLE EUROPEAN CENTRE FOR RISK MANAGEMENT AND SAFE INNOVATION IN NANOMATERIALS AND NANOTECHNOLOGIES (EC4SafeNano) — DEVELOPING THE GREEK HUB

Dr Effie Marcoulaki¹, Dr Myrto Konstantinidou¹, Dr Panagiotis Neofytou, Dr Konstantinos Eleftheriadis, Dr Olga Aneziris, Dr Marika Pilou, Dr Maria Gini, Dr Ioannis Papazoglou 'National Centre for Scientific Research "Demokritos", Greece

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| | TIME: 13:00-15:00 R00M: FOYER, E1/M1 | | |
|---|---|--|--|
| PI | Tuesday, September 19, 2017 | | |
| Symposium H.1: Critical Materials: Impact on Near-term Advanced Energy Technologies | | | |
| | TUNING OF MAGNETIC PROPERTIES OF HEUSLER-TYPE GLASS-COATED MICROWIRES | | |
| H1-P-TUE-P1-1 | Dr. Valentina Zhukova ¹ , Dr. Mihail Ipatov ¹ , Mr. Sergey Shevyrtalov ² , Dr. Valeria Rodionova ² , Dr. Prof. Arcady Zhukov ³ | | |
| | ¹ Dept. Phys. Mater. and Dept. Appl. Phys. Univ. Basque Country , San Sebastian, Spain, ² Immanuel Kant Baltic Federal University , Kaliningrad , Russia, ³ Dept. Phys. Mater. Univ. Basque Country and Ikerbasque, Basque Found. Science, Spain | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | | |
|---|---|--|--|
| Tuesday, September 19, 2017 | | | |
| Symposium H.2: Sustainable Production of (Critical) Materials | | | |
| | CERAMIC SHELL: AN ALTERNATIVE RAW MATERIAL FOR PRODUCTION OF RADIANT POROUS BURNERS | | |
| H2-P-TUE-P1-1 | Dr.ing. Antonio Pedro Novaes de Oliveira ¹ , MSc. Naiane Paiva Stochero ¹ , Dr.Ing. Elisângela Guzi de Moraes ¹ 'Federal University of Santa Catatina (UFSC), Graduate Program in Materials Science and Engineering (PGMAT), Laboratory of Glass-Ceramic Materials (VITROCER), Campus Universitário, Trindade - PO Box 476, 80040-900 Florianópolis., Brazil | | |
| | PHASE VARIATION AND METAL ELEMENT MIGRATION IN CARBOTHERMIC REDUCTION PROCESS OF (V, Cr)-BEARING TITANOMAGNETITE RESIDUE | | |
| H2-P-TUE-P1-2 | Ph.D. Bo Zhang ^{1,2} , Mr. Sen Gao ^{1,2} , Mr. Weibin Chen ^{1,2} , Miss Yun Ye ^{1,2} , Ph.D. Chengjun Liu ^{1,2} 'Scool of Metallurgy, Northeastern University, Shenyang, China, ² Key Laboratory for Ecological Metallurgy of Multimetallic Ores (Ministry of Education), Northeastern University, Shenyang, China | | |
| Ha D THE D1 2 | DEVELOPMENT OF NdFe ₁₂ -based magnetic films by electrodeposition from aqueous-and ionic liquid-based electrolytes as an alternative reprocessing route for recycled Nd-Fe-b permanent magnets | | |
| H2-P-TUE-P1-3 | Xuan Xu ^{1,2} , Spela Trafela ^{1,2} , Awais Ikram ^{1,2} , Farhan Mehmood ^{1,2} , Saso Sturm ^{1,2} , <u>Dr. Kristina Zuzek Rozman</u> ¹ ¹Jozef Stefan Institute, Ljubljana, Slovenia, ²Jozef Stefan International Postgraduation School, Ljubljana, Slovenia | | |
| | LITHIUM CARBONATE RECYCLING FROM CATHODE SCRAP OF SPENT LITHIUM-ION BATTERY | | |
| H2-P-TUE-P1-4 | Zhi Sun ¹ , Xiao Lin ¹ , Hongbin Cao ¹ , Yi Zhang ¹ 'Institute Of Process Engineering, Chinese Academy Of Sciences, Beijing, China | | |
| H2-P-TUE-P1-5 | INTEGRATED METHOD FOR NONFERROUS METALS RECOVERY FROM WASTE ELECTRIC AND ELECTRONIC EQUIPMENT (WEEE) USING MICROWAVE ENERGY | | |
| | <u>Doctor Engineer Vasile Soare</u> ¹ , Engineer Marian Burada ¹ , Doctor engineer Daniela Dumitrescu ¹ , Engineer Ionut Constantin ¹ , Doctor Engineer Dumitru Mitrica ¹ , Engineer Mihai Olaru ¹ , Engineer Victoria Soare ¹ , Doctor Engineer Mihai Ghita ¹ , Doctor Engineer Ana Maria Julieta Popescu ² , Professor Doctor Engineer Mihai Buzatu ³ | | |
| | 'National R&d Institute For Nonferrous And Rare Metals-imnr, Pantelimon, Romania, ² llie Murgulescu Institute of Physical Chemistry of the Romanian Academy, Bucharest, Romania, ³ University Politehnica of Bucharest, Faculty of Material Science and Engineering, Bucharest, Romania | | |
| | TOWARDS HIGHLY ADVANCED, NON-BRITTLE Fe-AL BASED INTERMETALLICS | | |
| H2-P-TUE-P1-6 | Dr. Wolfgang Kochanek², Dr. Srdjan Milenkovic³, Dr. Santhanu Jana⁴, Dr. Pavel Hanus⁴, <u>Dr. Panagiotis Kavouras</u> ¹, Dr. Costas Charitidis¹ | | |
| | ¹ Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, Greece, ² Dr. Kochanek Entwicklungsgesellschaft, Freiheitstr. 57, 67434, Germany, ³ IMDEA Materials Institute, Getafe, Spain, ⁴ Access e.V., Materials + Processes, Intzestr. 5, 52072, RWTH-Aachen, Germany, ⁵ Technical University of Liberec, Studentská 1402/2, 46117, Czechia | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
|---|--|--|
| P1 | Tuesday, September 19, 2017 | |
| Symposium H.2: Sustainable Production of (Critical) Materials | | |
| H2-P-TUE-P1-7 | RECOVERY OF CHROMIUM FROM CHROMITE ORE PROCESSING RESIDUE BY CARBOTHERMIC REDUCTION IN THE PRESENCE OF ALKALI | |
| | Miss Lidia Escudero Castejon¹, Dr Sergio Sanchez-Segado¹, Prof Animesh Jha¹¹University Of Leeds, Leeds, United Kingdom | |
| | RECOVERING OF GOLD DEPOSITED ON GERMAN SILVER SUPPORT | |
| H2-P-TUE-P1-8 | Ceylan Karabudak ¹ , Muhammed İhsan Özgün ¹ , <u>Dr Yasin Ramazan Eker¹</u> ¹ Konya Necmettin Erbakan University, Konya, Turkey | |
| | LEACHING OF METALS IN RED MUD WITH ACIDIC SOLUTIONS | |
| H2-P-TUE-P1-9 | Tugba Selcen Atalay¹, Hakan Burak Karadag¹, Mehmet Muzaffer Karadag², Yasin Ramazan Eker¹¹Necmettin Erbakan University, Department of Metallurgical and Materials Engineering, Konya, Turkey, ²Selcuk University, Department of Geological Engineering, Konya, Turkey | |
| | ENERGY EFFICIENT RECOVERY OF LEAD FROM SPENT LEAD ACID BATTERIES USING DEEP EUTECTIC SOLVENTS | |
| H2-P-TUE-P1-10 | <u>Dr Andrew Ballantyne</u> ¹ , Prof Geoff Kelsall ² , Prof Jason Riley ¹ , Prof Nilay Shah ² , Dr Jason Hallett ² , Dr David Payne ¹ | |
| | ¹ Department of Materials, Imperial College London, London, United Kingdom, 2Department of Chemical Engineering, Imperial College London, London, United Kingdom | |
| H2-P-TUE-P1-11 | COMPARISON BETWEEN TWO PARTIAL LEAST SQUARES REGRESSION APPROACHES FOR THE CHEMICAL QUANTIFICATION OF MOLTEN NON-FERROUS SLAG | |
| | Elise François ¹ , Odhisea Gazeli ^{2,3} , Dr. Annelies Malfliet ¹ , Prof. George Angelopolous ⁴ , Prof. Stelios Couris ^{2,3} , Prof. Bart Blanpain ¹ **Department of Materials Engineering, KU Leuven, 3001 Heverlee, Belgium, **Department of Physics, University of Patras, 26505 Patras, Greece, **Institute of Chemical Engineering Sciences, Foundation for Research and Technology, Hellas, 26505 Patras, Greece, **Department of Chemical Engineering, 26505 Patras, Greece | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|---------------|---|
| P1 | Tuesday, September 19, 2017 |
| г | Symposium H.3: Materials Life Cycle Approach and Flow Analysis |
| H3-P-TUE-P1-1 | SUSTAINABILITY ANALYSIS OF AN EUROPEAN UNDERGROUND RESEARCH INFRASTRUCTURE RELATED TO ADVANCED ADIABATIC COMPRESSED AIR ENERGY STORAGE (AA-CAES): RICAS2020 PROJECT |
| | Degree in Environmental Science Ariadna Claret¹, Degree in Environmental Science Maria Rosa Riera¹, Degree in Environmental Science Gertri Ferrer¹, Degree in Environmental Science Marta Escamilla¹, Dr. Mónica Beatriz Della Pirriera ¹¹Leitat, Terrassa, Spain |
| | MICROSTRUCTURE AND THERMAL CHARACTERIZATION OF THE PET-G FOIL BEFORE AND AFTER RECYCLING |
| H3-P-TUE-P1-2 | Ph.D. Eng. Rafal Kozera ¹ , M.Sc. Eng. Kamil Dydek ¹ , M.Sc. Eng. Paulina Latko-Durałek ¹ , P.hD. Eng. Paulina Kozera ¹ , Prof. Anna Boczkowska ¹ 'Warsaw University Of Technology, Faculty Of Materials Science And Engineering, Ul. Woloska 141, Poland |
| H3-P-TUE-P1-3 | THERMAL AND MECHANICAL PROPERTIES OF PETG/rPETG BLENDS |
| | Phd Student Kamil Dydek ¹ , PhD Student Paulina Latko-Duralek ¹ , Student Kajetan Chodorowski ¹ , PhD. Eng. Rafał Kozera ¹ , PhD. Eng. Paulina Chabera ¹ , Prof. Anna Boczkowska ¹ *Warsaw University Of Technology, Faculty of Materials Science and Engineering, Warsaw, Poland |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 | | |
|----------------|--|--|--|--|--|
| P2 | Thursday September 21, | 2017 | | | |
| F.Z. | Symposium A.1: Carbon-based nanomaterials | | | | |
| | INFLUENCE OF THE Co: NI RATIO ON THE PROPERTIES OF Co-NI CARBON-CONTAINING NANOCOMPOSITES | NANOPARTICLES A | ND THEIR | | |
| A1-P-THU-P2-1 | Professor, PhDoctor Ivania Markova ¹ , PhD student Ivan Zahar Master student Emre Karaduman ² , Associate professor, PhDodessociate professor Ludmil Fachikov ¹ , Associate professor PhDodessor Boyan Yordanov ¹ , Assistant professor Dir University of Chemical Technology and Metallurgy, Sofia, Bulgaria, 2Yildiz Technology and Metallurgy, Sofia, Bulgaria, Sofia, Sofia, Bulgaria, Sof | ctor Mehmet Piskir hDoctor Rositca Ga nka Ivanova¹ | vrilova ¹ , | | |
| | HIGH-CURRENT FIELD-EMISSION CARBON STRUCTURES FOR MI | ICROWAVE ELECTRO | INICS | | |
| A1-P-THU-P2-2 | Doctor Of Science Valeri Timoshenkov ¹ , Doctor Of Science Ravil Yafarov2 ² 'National Research University Of Electronic Technology, Moscow, Russian Federation, ² Kotelnikov Institute of Radioengineering and Electronics, Saratov Branch, Russian Academy of Sciences, Saratov, Russian Federation | | | | |
| | INFLUENCE OF DISPERSION OF GRAPHENE OXIDE AND REDUCEI IN GAS PERMEATION AND FRICTION BEHAVIOR ON STAINLESS S | | ON POLYURETHANE | | |
| A1-P-THU-P2-3 | Dr Jose Brant de Campos ¹ , Mr Alessandro E. L. Silva1, Dr Stefania Nardecchia ² , Dr Cecilia Vilani ² , Dr Eric C. Romani ² , Dr Juan Lucas Nachez ⁴ , Dr Suzana Bottega Peripolli ¹ , Dr Fernando Lázaro Freire Junior ² , Dr Lincoln Silva Gomes ³ ¹ Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, ² Pontificia Universidade Católica do Rio de Janeiro, Rio de Janeiro, Brazil, ³ Instituto SENAI de Tecnologia Solda, Rio de Janeiro, Brazil, ⁴ Universidade Federal Fluminense, Rio de Janeiro, Brazil, ⁴ Universidade Federal Fl | | | | |
| | COATING OF CARBON-NANOTUBES ON CERAMIC AND METALLIC | MATERIALS | | | |
| A1-P-THU-P2-4 | ania Nardecchia ² , <u>ier</u> ¹ , Dr Laurent Ve of Lyon, Villeurbanne, Fi | | | | |
| | CARBOXYL FUNCTIONALIZATION OF CVD GRAPHENE FOR BIO-MI | | | | |
| A1-P-THU-P2-5 | Sandra Cortijo ¹ , Leo Álvarez-Fraga ¹ , Dr Gil Gonçalves ² , Dr Mei Dr Patricia Alvarez ⁴ , Prof. Rosa Menéndez ⁴ , Dr Javier Palomaro Prof Carlos Prieto ¹ | es¹, Prof. Alicia De | Andrés ¹ , | | |
| | ¹ Consejo Superior De Investigaciones Científicas, Madrid, Spain, ² Department of Mechanical Engineering, University of Aveiro, Aveiro, Portugal, ³ Department of Biology, University of Aveiro, Aveiro, Portugal, 4Instituto Nacional del Carbón, CSIC, 33011, Oviedo, Spain | | | | |
| | USE OF GRAPHENE OXIDE FOR THE REMOVAL OF ARSENIC IN WA | ATER | | | |
| A1-P-THU-P2-6 | Mrs Gabriela Navarro ¹ , Mrs Ana Cecilia Reynosa ¹ , <u>Dr Eddie Lo</u> ¹ Cinvestav, Mexico | pez-Honorato¹ | | | |
| | GRAPHENE-BASED PHASE CHANGING NANO-MATERIALS FOR TI | HERMAL STORAGE | APPLICATIONS | | |
| A1-P-THU-P2-7 | Graduate Student Antonia Zisopoulou ¹ ¹ University of Ioannina, Ioannina, Greece | | | | |
| | SYNTHESIS OF SANDWICH MICROSTRUCTURED EXPANDED GRAF WITH CARBON NANOTUBE COMPOSITE AND ITS ELECTROMAGNE | | | | |
| A1-P-THU-P2-8 | Dr. Tingkai Zhao ¹ , Wenbo Jin1, Xianglin Ji ¹ , Wenbo Yang ¹ , Jingl ¹ State Key Laboratory of Solidification Processing, Shaanxi Engineering Laborate Applications, School of Materials Science and Engineering, Northwestern Polyte | ory for Graphene New Co | arbon Materials and , China | | |
| A1-P-THU-P2-9 | MAGNETIC AND ELECTRICAL CHARACTERIZATION OF Pd1-XNIX DINANOCOMPOSITES | DECORATED REDUC | ED GRAPHENE OXIDE | | |
| | Ms. Vineeta Shukla ¹ , Dr. Suneel Kumar Srivastava ¹ , Dr. Sanjee ¹ IIT Kharagpur, KHARAGPUR, India | v Kumar Srivastava | 91 | | |
| | PREPARATION AND CHARACTERIZATION OF CARBON/ METAL AN NOVEL LOW-COST PERSPECTIVE ELECTROCATALYTIC MATERIALS | | | | |
| A1-P-THU-P2-10 | Dr. Erika Mudra ¹ , Dr. Magdalena Streckova ¹ , Dr. Renata Orinak Prof. Jan Dusza ¹ | | | | |
| | ¹ Institute of Materials Research, Slovak Academy of Sciences, Watsonova 47, K of Physical Chemistry, Faculty of Science, P.J. Safarik University, Moyzesova 11, Geotechnics, Slovak Academy of Sciences, Watsonova 45, 040 01 Kosice, Slovak | 040 01 Kosice, Slovak Ří | ublic, ² Department epublic, ³ Institute of | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | | | | |
|----------------|---|--|--|--|--|
| P2 | Thursday September 21, 2017 | | | | |
| 12 | Symposium A.1: Carbon-based nanomaterials | | | | |
| | ASSESSMENT OF ACTIVATED KEVLAR FIBERS AS CARBON-BASED NANOSTRUCTURED MATERIAL FOR GAS ADSORPTION | | | | |
| A1-P-THU-P2-11 | Ing. Giuseppe Conte ¹ , Victor Lazzaroli ¹ , Dr. Sara Stelitano ¹ , Dr. Alfonso Policicchio ^{1,2,3} , Dr. Francesco Demetrio Minuto ¹ , Dr. Valentino Pingitore ² , Oreste De Luca ^{1,3} , Prof. Raffaele Giuseppe Agostino ^{1,2,3} | | | | |
| | ¹ Università Della Calabria, Arcavacata di Rende (CS), Italy, 2Consorzio Nazionale Interuniversitario per le Scienze Fisiche della Materia , Roma, Italy, 3CNR - Nanotec, c/o Università della Calabria, Italy | | | | |
| | NONLINEAR RESPONSE AND TUNABLE EXCITONIC ABSORPTION IN GAPPED MONOLAYER AND BILAYER GRAPHENE | | | | |
| A1-P-THU-P2-12 | Konstantinos Moulopoulos ¹ , Artak A. Avetisyan ² , Anahit P. Djotyan ² | | | | |
| | Department of Physics, University of Cyprus, Nicosia, Cyprus, ² Yerevan State University, Department of Physics, Yerevan, Armenia | | | | |
| A1-P-THU-P2-13 | APPLICATION OF CHEMICAL MODIFIED CARBON NANOTUBES WITH DIAZONIUM SALTS AS ANODE FOR MICROBIAL FUEL CELLS | | | | |
| | <u>Dr. Silviu Vulpe1</u> ¹ , Dr. Adrian Radu ¹ , Dr. Mihaela Temelie ¹ , Dr. Anca Dumitru ¹ 'University of Bucharest - Faculty of Physics, Bucharest, Romania | | | | |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 | | |
|-----------------------------|---|--|---|--|--|
| Thursday September 21, 2017 | | | | | |
| | Symposium A.2: Innovations in Functional Nanomagnets | | | | |
| | MEASUREMENT UNCERTAINTY SOURCES IN THE CHARACTERIZE FOR HYPERTHERMIA | ZATION OF MAGNETIC | NANOPARTICLES | | |
| A2-P-THU-P2-1 | Phd Candidate Nikos Maniotis ¹ , Professor Theodoros Sama ¹ Aristotle University of Thessaloniki, Thessaloniki, Greece | ras ¹ | | | |
| | A NOVEL DEVICE FOR GENERATION OF UNIQUE MAGNETIC FIE MAGNETO-MECHANICAL EFFECTS ON CELLULAR ENVIRONME | | TO PROMOTE | | |
| A2 -P-THU-P2-2 | M.Sc. Antonios Makridis ¹ , M.Sc. Katerina Spyridopoulou ² , M.Sc. Eirini Myrovali ¹ , Dr Theodoros Samaras ¹ , Dr Makis And Dr Orestis Kalogirou ¹ **Department of Physics, Aristotle University of Thessaloniki, 54124, Thessalo | gelakeris¹, Dr Katerin | , | | |
| | Genetics, Democritus University of Thrace, Alexandroupolis, Greece | mmi, oreces, beparament | or Protection Brotogy and | | |
| | PHYSICAL PROPERTY EVALUATION OF A POLYDISPERSE FERR | OFLUID VIA A MONTE | CARLO SIMULATION | | |
| A2-P-THU-P2-3 | Andreas Nazlidis¹ Nikos Maniotis¹, Kioseoglou Joseph¹, The ¹Aristotle University Of Thessaloniki, Thessaloniki, Greece | odoros Samaras¹ | | | |
| | NATURAL MAGNETIC MULTILAYERS: GROWTH AND MAGNETIS | М | | | |
| A2-P-THU-P2-4 | <u>Dr Panagiotis Poulopoulos</u> ¹ , Mr D.I. Anyfantis ¹ , Mr D. Ntemo Dr A. Delimitis ² , Dr S.D. Pappas ³ , Dr V. Kapaklis ³ | giannis¹, Mr A. Stama | itelatos¹, | | |
| | ¹ University Of Patras, Materials Science Department, 26504, Patras, Greece, (CPERI) Centre for Research & Technology Hellas (CERTH), 57001 Thermi, Ti Astronomy, Uppsala University, Box 516, SE-75120, Uppsala, Sweden | ² Chemical Process & Energ hessaloniki, Greece, ³ Depar | y Resources Institute tment of Physics and | | |
| A2-P-THU-P2-5 | EX VIVO STUDIES OF MAGNETIC NANOPARTICLE HEATING IN A | AN AC MAGNETIC FIEL | D | | |
| | <u>BSc Student Zoi Kalpaxidou</u> ¹ , Student Chara Iliaskou ¹ , MSc S MSc Student Nikos Maniotis ¹ , Doctor Theodoros Samaras ¹ , I 'Auth, Thessaloniki, Greece | Student Eirini Myrova Doctor Makis Angelak | li¹, eris¹ | | |
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| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
|--|--|--|
| P2 | Thursday September 21, 2017 | |
| Symposium A.2: Innovations in Functional Nanomagnets | | |
| | MAGNETIC NANOPARTICLE INCORPORATION IN MAGNETIC STIMULATION PROTOCOLS | |
| A2-P-THU-P2-6 | Bachelor Tamara Nastasia Titilola Ais Odutola ¹ , MSc Student Eirini Myrovali ¹ , MSc Student Antonis Makridis ¹ , MSc Student Nikos Maniotis ¹ , Doctor Vasilios Kimiskidis ² , Doctor Theodoros Samaras ¹ , Doctor Makis Angelakeris ¹ 1Physics Department, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece, 2Laboratory of Clinical Neurophysiology, Aristotle University of Thessaloniki, Thessaloniki, 54124, Greece | |
| | STRUCTURAL AND MAGNETIC PROPERTIES OF Mn-BASED RIBBONS CONTAINING AL | |
| A2-P-THU-P2-7 | Dr Charalampos Sarafidis ¹ , Dr Margariti Gjoka² ¹ Department Of Physics, Aristotle University of Thessaloniki, Greece, Thessaloniki, Greece, ² Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece, Agia Paraskevi, Greece | |
| | CONTROLLING NUCLEATION RATES WITH PATTERNS OF IMPURITIES | |
| A2-P-THU-P2-8 | M.Sc. Egon Tschurtschenthaler¹¹University Of Vienna - Faculty of Physics, Vienna, Austria | |
| | INVESTIGATING MAGNONICS THROUGH STRUCTURAL EFFECTS IN EPITAXIAL THIN Fe/Pt FILMS | |
| A2-P-THU-P2-9 | <u>Dimitrios Karfaridis</u> ¹ , Dr. Konstantinos Simeonidis ¹ , Sascha Keller ² , Dr. Ulf Wiedwald ³ , Dr. George P. Dimitrakopulos ¹ , Dr. Thomas Kehagias ¹ , Dr. Makis Angelakeris ¹ , Dr. Evangelos Th. Papaioannou ² , Dr. George Vourlias ¹ "Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, "Department of Physics and National Research Center OPTIMAS, Technical University of Kaiserslautern, 67663 Kaiserslautern, Germany, "Faculty of Physics and Center for Nanointegration (CENIDE), University of Duisburg-Essen, 47057 Duisburg, Germany | |
| | MAGNETIC HARDENING OF FeCo NANOWIRE ARRAYS BY SANDWICHING WITH ANTIFERROMAGNETS | |
| A2-P-THU-P2-10 | Fangzhou Wang¹, Dr. Ruslan Salikhov¹, Dr. Marina Spasova¹, Dr. Sara Liébana-Viñas¹, Dr. Christina Bran², Yu-Shen Chen².³, Prof. Manuel Vázquez², Prof. Michael Farle¹.⁴, Dr. Ulf Wiedwald¹ ¹Faculty of Physics and Center for Nanointegration Duisburg-Essen, University of Duisburg-Essen, | |
| | DETERMINATION OF THE SPIN PUMPING CONTRIBUTION TO THE MAGNETIC DAMPING OF THIN Fe/GaAS FILMS BY IN SITU MULTIFREQUENCY FERROMAGNETIC RESONANCE | |
| A2-P-THU-P2-11 | <u>Dr. Florian M. Römer</u> ¹ , Paul Wendtland ¹ , Prof. Dr. Michael Farle ¹ **Experimental Physics, AG Farle, University Duisburg-Essen, Duisburg, Germany | |
| | MAGNETIZATION REVERSAL IN IN FERROMAGNETIC COAXIAL NANORODS | |
| A2-P-THU-P2-12 | Irene Iglesias ¹ , Thomas Feggeler ¹ , Prof.Dr. Michael Farle ^{1,2} ¹ Faculty of Physics and Center for Nanointegration (CENIDE), University Duisburg-Essen, 47057 Duisburg, Germany, 2Center for Functionalized Magnetic Materials (FunMagMa), IKBFU, Kaliningrad, Russia | |
| | DEPOSITION AND CHARACTERIZATION OF HEXAGONAL NON-COLLINEAR ANTIFERROMAGNETIC Mn3SN FILMS | |
| A2-P-THU-P2-13 | <u>Dr. Anastasios Markou</u> ¹ , Adel Kalache ¹ , Dr. Peter Werner ² , Prof. Dr. Claudia Felser ¹ ¹ Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, 2Max Planck Institute of Microstructure Physics, Halle, Germany | |

| | TIME: 13:00-15:00 R00M: FOYER, E1/M1 |
|-------------------|---|
| P2 | Thursday September 21, 2017 |
| 14 | Symposium A.6-II: Advanced Materials for Space Exploration / Part 2 |
| | ADDITIVE MANUFACTURING FOR SPACE INSTRUMENTATION AND SUBSYSTEMS |
| A6-II-P-THU-P2-1 | Mr Geoffrey Oger ¹ , Mr Grégory Nolens ² , Mr Johannes Gumpinger ³ , Mr Pierre Rochus ¹ ¹Centre Spatial De Liège (CSL), Liège, Belgium, ²CERHUM, Liège, Belgium, ³European Space Agency, Noordwijk, The Netherlands |
| | SIMULATION OF SPACE AND GROUND-BASED TESTS OF MATERIALS |
| A6-II-P-THU-P2 -2 | Prof Genadij Frolov ¹ , Dr. Oleg Udovyk ¹ ¹ Institute For Problems Of Material Science Of National Academy of Sciences, Kiyv, Ukraine |
| A6-II-P-THU-P2-3 | STUDY ON THE FACTORS AFFECTING THE MECHANICAL BEHAVIOR OF ELECTRON BEAM MELTED Ti6AI4V |
| | <u>Dr Carmine Pirozzi</u> ¹ , Dr Rosario Borrelli ¹ , Dr Stefania Franchitti ¹ , Professor Fabrizia Caiazzo ² , Dr Vittorio Alfieri ² , Dr Paolo Argenio ² |
| | Iltalian Aerospace Research Center, Capua, Italy, ² Dipartimento di Ingegneria Industriale, Università degli Studi di Salerno, Fisciano, Italy |

| | TIME: 13:00–15:00 ROOM: FOYER, E1/M1 | | |
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| P2 | Thursday September 21, 2017 Symposium A.7-II: Functional Nanomaterials for Novel Applications/ Part 2 | | |
| FZ | | | |
| | NANOSTRUCTURES OF LUMINESCENT IZO (INDIUM-ZINC-OXIDE) DOPED WITH Ga AND Fe | | |
| A7-II-P-THU-P2-1 | Javier García-Fernández², Almudena Torres-Pardo², Julio Ramírez-Castellanos², Ana Cremades¹, Javier Piqueras¹, José María González-Calbet² ¹Dept. Física de Materiales, Facultad de Físicas, Universidad Complutense De Madrid, Madrid, Spain, ²Dept. Química Inorgánica, Facultad de Químicas, Universidad Complutense de Madrid, Madrid, Spain | | |
| | RELATIONSHIP BETWEEN MICROSTRUCTURE AND RHEOLOGY IN NEWLY DEVELOPED NANO-BASED DRILLING FLUIDS | | |
| A7-II-P-THU-P2-2 | Mr Zisis Vryzas ^{1,2} , Mrs Anastasia Terzidou ¹ , Prof. Vassilis Zaspalis ^{1,3} , Dr Lori Nalbandian ³ , Prof. Vassilios C. Kelessidis ⁴ | | |
| | Chemical Engineering Department, Aristotle University Of Thessaloniki, Thessaloniki, Greece, ² Department of Petroleum Engineering, Texas A&M University at Qatar, Doha, Qatar, ³ Chemical Process and Energy Resources Institute, The Centre for Research and Technology Hellas, Thessaloniki, Greece, ⁴ Department of Petroleum Engineering, The Petroleum Institute, Abu Dhabi, UAE | | |
| | PLD CDSE-D0PED Li20-Al203-Ba0-La203-Zn0-P205 THIN FILMS FOR SENSING APPLICATIONS | | |
| A7-II-P-THU-P2-3 | PhD Constantina-Raluca Iordanescu¹, PhD Mihail Elisa¹, PhD Ileana Cristina Vasiliu¹, PhD Madalin Ion Rusu¹, PhD Laurentiu Octavian Scoicaru¹, PhD Gabriel Socol², PhD Bogdan Alexandru Sava², PhD Lucica Boroica², PhD Mihaela Filipescu²¹National Institute of R & D for Optoelectronics INOE 2000, Magurele, Romania, ²National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania | | |
| A7-II-P-THU-P2-4 | SYNTHESIS AND CHARACTERIZATION OF AI DOPED TiO2 MICRO AND NANOSTRUCTURES GROWN BY A VAPOR-SOLID PROCESS | | |
| | María Taeño¹, David Maestre¹, <u>Ana Cremades</u> ¹, Julio Ramírez-Castellanos¹, Javier Piqueras¹¹ <i>Universidad Complutense De Madrid, Madrid, Spain</i> | | |
| | DETECTION OF PSYCHOACTIVE DRUGS BY SURFACE ENHANCED RAMAN SPECTROSCOPY | | |
| A7-II-P-THU-P2-5 | Alexandre Merlen ¹ , <u>Cedric Pardanaud</u> ² , David Bergé-Lefranc ² , Trang Phan ² , Nicolas Simon ² , Audrey Boulaméry ² , Virginie Hornebecq ² 1 University of Toulon, Aix Marseille University, Toulon, France, 2 Aix-marseille Université, Marseille, France | | |
| | STUDY OF SnO2, TiO2 AND THEIR COMPOSITES WITH GRAPHENE OXIDE FOR APPLICATIONS IN LI-ION BATTERIES | | |
| A7-II-P-THU-P2-6 | Felix Del Prado ¹ | | |
| | ¹ Universidad Complutense De Madrid, Madrid, Spain | | |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 | |
|---|--|---|--|--|
| P2 | Thursday September 2 | I, 2017 | | |
| Symposium A.7-II: Functional Nanomaterials for Novel Applications/ Part 2 | | | | |
| A7-II-P-THU-P2-7 | ON THE GROWTH AND POST-TREATMENT OF NANOSTRUCTU USING HYDROTHERMAL SYNTHESIS | RED VANADIUM DIOXI | DE (VO2) PHASES | |
| | Doctor Corinne Legros ¹ , Doctor Olga Ishchenko ² , Ana Saro Céline Byl ¹ , Doctor Emilie Amzallag ¹ , Doctor Nathalie Prud Doctor Guy Garry ² , Doctor Michel Andrieux ¹ ¹ Univ. Paris Sud - Univ. Paris Saclay, SP2M-ICMMO, CNRS UMR 8182, Bât 4 Rostand, 91786 Orsay, France, ³ Thales Research & Technology France, Cam 91767 Palaiseau Cedex, France | l'homme ¹ , Doctor Ber | nard Servet³, | |
| | EFFECT OF TRANSFORMATION TEMPERATURE ON NANO PAR | | | |
| A7-II-P-THU-P2-8 | <u>Dr Rama Balasubramanian</u> ¹ , Mr William Lamber ¹ 'URoanoke College, , Salem,, USA | | | |
| | OPTIMIZED HETEROSTRUCTURES FOR MOLECULE DETECTION COMBINING INTERFERENCE AND PLASMON RESONANCE RA | | | |
| A7-II-P-THU-P2-9 | Leopoldo Alvarez Fraga ¹ , Esteban Climent-Pascual ¹ , Monserrat Aguilar-Pujol ¹ , Rafael Ramírez-Jiménez ² , Félix Jiménez-Villacorta ¹ , Carlos Prieto ¹ , Alicia de Andrés ¹ 'Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas. Cantoblanco 28049, Madrid, Spain, ² Departamento de Física, Escuela Politécnica Superior, Universidad Carlos III de Madrid, Avenida Universidad 30, 289 Leganés, Spain | | | |
| A7 II D TIIV DO 12 | SiO2@TiO2 CORE-SHELL NANOCATALYST PREPARATION, CHA | ARACTERIZATION | | |
| A7-II-P-THU-P2-10 | <u>Ioanna Kitsou</u> ¹ , Athena Tsetsekou ¹ , Panagiotis Panagopou ¹ National Technical University Of Athens, Athens, Greece, ² NCSR "Demokrit | | 32 | |
| | USING MECHANICAL ALLOYING FOR PHASE Cr2AlC FORMAT GRAPHENE-LIKE CARBIDES OF MXene TYPES | TION AS PRECURSORS | 3 OF | |
| A7-II-P-THU-P2-11 | <u>Dr Mariia Saviak</u> ¹ , Volodymyr Ivchenko, Marina Vasil'kivsk Prof. Irina Uvarova | | | |
| AT II D TIII DO | ¹ Frantsevich Institute for Problems of Materials Science of National Academ DOPING AND CHARACTERIZATION OF ZnO ELONGATED I RESISTIVE HEATING OF Zn WIRES | , | • | |
| A7-II-P-THU-P2-12 | <u>Dr. Ana Urbieta¹</u> , Prof. Paloma Fernández¹, Prof. Javier Pic¹Departamento de Física de Materiales, Facultad de C.C. Físicas, Universida | | Madrid, Spain | |
| | SYNTHESIS, CHARACTERIZATION AND SWELLING BEHAVIOR POLYMER COMPOSITES | OF SUPERABSORBEN | Т | |
| A7-II-P-THU-P2-13 | Irene Kanellopoulou ¹ , Dr. Ioannis Kartsonakis ¹ , Dr. Elias Kr Dr. Costas Charitidis ¹ 'Research Unit of Advanced, Composite, Nano-Materials and Nanotechnolo | nay School of Chemical Foo | | |
| | Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, to STUDY OF Mg INCORPORATION ON ZnO BY DIFFERENT GROW | Greece | | |
| A7 II D TIII D0 47 | Esther de Prado ^{1,2} , Dr M. Carmen Martínez-Tomás ² , Profes | | anjosé², | |
| A7-II-P-THU-P2-14 | Professor Paloma Fernández¹ ¹Dept. Física de Materiales, University Complutense, 28040 Madrid, Spain, ². U. Valencia, 46100 Burjassot, Spain | | | |
| | WATER STRUCTURES IN CARBON NANOTUBES WITH ELECTR OF WATER-ALCOHOL SOLUTIONS | IC FIELDS FOR SEPAR | ATION | |
| A7-II-P-THU-P2-15 | Ph.D. Winarto Winarto ¹ Ph.D Daisuke Takaiwa ² , Ph.D Eiji Ya Department of Mechanical Engineering, Faculty of Engineering, Brawijaya Indonesia, ² Department of Mechanical Engineering, Keio University, 3-14-1 ³ Graduate School of Science and Technology, Keio University, 3-14-1 Hiyos. | University, Jl. MT Haryono | 167, Malang 65145, | |
| | JUDD-OFELT ANALYSIS AND TRANSITION PROBABILITIES OF AND Ca3Al2Si3012 GLASSES | | | |
| A7-II-P-THU-P2-16 | Dr. Daniel Sola ¹ , Dr. J. Martinez de Mendivil ² , Dr. N. Dong ³ , Dr. G. Lifante ⁵ , Dr. J.I. Peña ⁶ 'Laboratorio de Optica. Centro de Investigacion en Optica y Nanofisica. Univariatamiento de la Señal y Comunicaciones. Universidad de Mondragón, Arra Key Laboratory of Crystal Materials. Shandong University, Jinan, China, 'Dey Universidad. Catolica del Peru, San Miguel, Lima, Peru, ⁵ Departamento de F | versidad De Murcia, Murcia, asate-Mondragon, Spain, ³ partamento de Ciencias, Se Fisica de Materiales. Facult | Spain, ² Departamento de School of Physics, State ccion Quimica Pontificia ad de Ciencias. Universidad | |
| | Autonoma de Madrid, Madrid, Spain, é Departamento de Ciencia y Tecnologí. Materiales de Aragon, Universidad de Zaragoza-CSIC, Zaragoza, Spain | a de Materiales y Fluidos. I | nstituto de Ciencia de | |

| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 | | |
|---|--|--|--|
| Thursday September 21, 2017 | | | |
| Symposium A.7-II: Functional Nanomaterials for Novel Applications/ Part 2 | | | |
| | SOLUTION-BASED SYNTHESIS OF AMORPHOUS GERMANIUM NANOPARTICLES FROM ORGANOGERMANIUM HALIDE PRECURSORS | | |
| A7-II-P-THU-P2-17 | Bruno Pescara ^{1,2,3} , Dr. Katherine ann Mazzio ^{2,3} , Dr. Giorgia Greco ^{2,3} , Dr. Armin Hoell ^{2,3} , Prof. dr. Klaus Lips ^{2,3,4} , Prof. dr. Simone Raoux ^{2,3,5} *Institute of Chemistry and Biochemistry, Faculty of Mathematics and Natural Science, Freie Universität Berlin, Berlin, Germany, *Energy Materials In-Situ Laboratory, Helmholtz-Zentrum Berlin für Materialien und Energie, GmbH, Berlin, Germany, *Institut für Nanospektroskopie, Helmholtz-Zentrum Berlin für Materialien und Energie, GmbH, Berlin, Germany, *Department of Physics, Faculty of Mathematics and Natural Science, Freie Universität Berlin, Berlin, germany, *Department of Physics, Faculty of Mathematics and Natural Sciences, Humboldt-Universität zu Berlin, Berlin, Germany | | |
| | SYNTHESIS OF NI2P NANOPARTICLES SUPPORTED r -GO composites for hydrodesulphurization applications | | |
| A7-II-P-THU-P2-18 | <u>Dr Vasileios Tzitzios</u> ¹ , Dr Marios Kartsiotis ² , Mr Vishnu Pillai ¹ , Mr Thomas Karagiannis ¹ , Ms Anjana Tharalekshmy ¹ , Mr Samuel Stephen ¹ , Dr Dimitrios Gournis ³ , Dr Saeed Alhassan ¹ 1Petroleum Institute University, Abu Dhabi, United Arab Emirates, ² TITAN CEMENT S.A., Athens, Greece, ³ University of Ioannina, Ioannina, Greece | | |
| | OPTIMAL SURFACE FUNCTIONALIZATION OF THERMO-ALKALINE TREATED NANOSTRUCTURED SILICA ADSORBENTS FOR CO2 ADSORPTION | | |
| A7-II-P-THU-P2-19 | Phd Student Obdulia Medina Juárez ¹ , PhD Miguel Ángel García-Sánchez ¹ , PhD Fernando Rojas-González ¹ ¹ Universidad Autónoma Metropolitana, México, Mexico | | |
| | CONDENSATION OF SILVER NANOPARTICLE COLLOIDAL SOLUTION FOR USE AS SILVER INKS | | |
| A7-II-P-THU-P2-20 | <u>Dr Eleftheria Lili</u> ¹ , Assoc. Prof. DrEng. Nikolaos Michailidis ² ¹Physical Metallurgy Laboratory, School of Engineering, Mechanical Engineering Department, Aristotle University of Thessaloniki, Thessaloniki, Greece, ²PLiN-Nanotechnology SA, Spectra Business Center, Thermi, Thessaloniki, Greece | | |
| | ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF STANENE IN THE ABSENCE AND PRESENCE OF EXTERNAL ELECTRIC FIELD | | |
| A7-II-P-THU-P2-21 | <u>Mojde Fadaie</u> ¹ , Proffesor Özgür Müstecaplıoğlu ¹ ¹ Koc University, Physics Department, Istanbul, Turkey | | |
| | PRODUCTION AND STRUCTURAL CHARACTERIZATION OF NANOCRYSTALLINE TERNARY AgCuni Nanoparticles by ultrasonic spray pyrolysis technique (USP) | | |
| A7-II-P-THU-P2-22 | Sebahattin Gürmen ¹ , <u>Serzat Safaltın</u> ¹ ¹Koc University, Physics Department, Istanbul, Turkey | | |
| | ENVIRONMENTALLY FRIENDLY CROSS-LINKING OF HYDROLYSED POLYACRYLAMIDE GELS FOR ENHANCED OIL RECOVERY | | |
| A7-II-P-THU-P2-23 | <u>Juan Yang</u> ¹ , Huaitian Bu ¹ , Britt Sommer ¹ , Kjell Olafsen ¹ , Fuad Karimov ¹ , Nicolas Rival ¹ , Christian Simon ¹ **Materials and Chemistry, SINTEF, Forskningsveien 1, NO-0314, Oslo, Norway | | |
| | BIOSOURCED AND LIGNOCELLULOSIC MATERIALS FOR ELECTROCHEMICAL ENERGY STORAGE AND CONVERSION | | |
| A7-II-P-THU-P2-24 | Federico Bella ¹ , Simone Galliano ² , Francesca Colò ¹ , Marisa Falco ¹ , Guido Viscardi ² , Claudia Barolo ² , Claudio Gerbaldi ¹ 'Department of Chemistry, NIS Interdepartmental Centre and INSTM Reference Centre, Università degli Studi di Torino, Torino, Italy, ² GAME Lab, Department of Applied Science and Technology (DISAT), Politecnico di Torino, Torino, Italy | | |
| | FUNCTIONAL DYES IN NANOSTRUCTURED MATERIALS: SYNTHESIS AND CHARACTERIZATION | | |
| A7-II-P-THU-P2-25 | Claudia Barolo ^{1,2} , Nadia Barbero ¹ , Simone Galliano ¹ , Claudio Magistris ¹ , Roberto Buscaino ¹ , Pierluigi Quagliotto ¹ , Guido Viscardi ¹ Department of Chemistry, NIS Interdepartmental Centre and INSTM Reference Centre, Università degli Studi di Torino, Torino, Italy, ² (CXT Interdepartmental Centre, Università di torino, Torino, Italy | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
|---------------|---|--|
| P2 | Thursday September 21, 2017 | |
| 12 | Symposium A.9: Functional Membranes | |
| A9-P-THU-P2-1 | ELECTRON BEAM MODIFIED CELLULOSE ACETATE ELECTROSPUN MATS FOR FILTRATION OF PHARMACEUTICALS | |
| | Msc. Engineering Natalia Cano-Murillo ^{1,2} , Dr. Anna Maria Elert ¹ , Dr. rer.nat Ulrike Braun ¹ , Pr. Dr. rer.nat Heinz Sturm ^{1,2} ¹ Federal Institute for Materials Research and Testing BAM, Berlin, Germany, ² Technical University Berlin, Berlin, Germany | |
| | GAS DIFFUSION IN POLYMER OF INTRINSIC MICROPOROSITY: AN EXPERIMENTAL AND COMPUTATIONAL APPROACH | |
| A9-P-THU-P2-2 | Dr. Alessio Fuoco ¹ , Ms Carmen Rizzuto ¹ , Dr Elena Tocci ¹ , Dr Mariolino Carta ² , Prof Neil B McKeown ² , Dr Johannes C. Jansen ¹ | |
| | ¹ Institute on Membrane Technology (ITM -CNR), Rende, Italy, ² School of Chemistry, University of Edinburgh, Edinburgh, United Kingdom | |
| | PREPARATION OF Ba0.5Sr0.5Co0.8Fe0.203-X SUPPORTS THOUGH FREEZE-CASTING METHOD | |
| A9-P-THU-P2-3 | MSc. Douglas Fernandes Souza ¹ , PhD. Eduardo Henrique Martins Nunes ¹ , PhD. Wander Luiz Vasconcelos ¹ | |
| | ¹ Federal University of Minas Gerais, Belo Horizonte, Brasil | |
| A9-P-THU-P2-4 | AN EASY AND SCALABLE PROCESS FOR ANTIFOULING NANOCELLULOSE-BASED MEMBRANES | |
| | <u>Luis Valencia Lopez</u> ¹ , Dr Aji Mathew ¹ ¹Federa Stockholm University, Stockholm, Sweden | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
|----------------|--|--|
| P2 | Thursday September 21, 2017 | |
| ΓZ | Symposium B.1: Advanced High Strength Steels | |
| B1-P-THU-P2-1 | BALANCING THE COBALT/TUNGSTEN AND THE COBALT/NIOBIUM RATIO IN NOVEL MARTENSITIC CREEP STEELS | |
| | Mr. Hao Yu¹, Dr. Wei Xu², Dr. Sybrand van der Zwaag³ ¹Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft University Of Technology, Delft, the Netherlands, ²State Key Laboratory of Rolling and Automation, Northeastern University, Shen Yang, China, ³Novel Aerospace Materials group, Faculty of Aerospace Engineering, Delft University Of Technology, Delft, the Netherlands | |
| | ENHANCING STRAIN HARDENING IN ULTRA-FINE AND NANOSTRUCTURED BAINITIC STEELS | |
| B1-P-THU-P2-2 | Miguel Benito-Alfonso ¹ , Shao-Pu Tsai ² , Jer-Ren Yang ² , Rosalia Rementeria ¹ , Lucia Morales-Rivas ³ , Carlos García-Mateo ¹ , Francisca G. Caballero ¹ ¹ National Center for Metallurgical Research (CENIM-CSIC)), Madrid, Spain, ² National Taiwan University, Taipei, Taiwan, ³ Universidad de Kaiserslautern, Kaiserslautern, Germany | |
| | THE EFFECTS OF UNDERCOOLING AND TRANSFORMATION TIME ON MICROSTRUCTURE AND PROPERTIES IN A HIGH STRENGTH SUPERBAINITE STEEL | |
| B1-P-THU-P2-3 | Ph.D. Student Jun-yu Tian ¹ , <u>Professor Guang Xu</u> ¹ , Ph.D. Student Hai-jiang Hu ¹ , Ph.D. Student Ming-xing Zhou ¹ | |
| | ¹ The State Key Laboratory of Refractories and Metallurgy, Wuhan University Of Science And Technology, Wuhan, China | |
| D1 D TIII D2 / | MAGNETIC BEHAVIOUR OF NANOSTRUCTURED BAINITE AT CRYOGENIC TEMPERATURES | |
| B1-P-THU-P2-4 | Dr. Arancha Argüelles ¹ , Dr. Maria F. Barbes ¹ , Dr. Jose I. Espeso ² , <u>Dr. Carlos Garcia-Mateo</u> ³ 'Universidad de Oviedo, Oviedo, Spain, ² Universidad de Cantabria, Santander, Spain, 3CENIM-CSIC, Madrid, Spain | |
| B1-P-THU-P2-5 | ISOTHERMAL TRANSFORMATION OF NANOSTRUCTURED BAINITE: EFFECT PRIOR MARTENSITE FORMATION | |
| | Mr Miguel A. Santajuana ¹ , Dr Christophe Mesplont ² , Dr Thomas Sourmail ³ , Dr David San Martin ¹ , Dr Matthias Kuntz ⁴ , Prof Francisca G. Caballero ¹ , <u>Dr. Carlos Garcia-Mateo</u> ¹ 1CENIM-CSIC, Madrid, Spain, ² Bekaert, Zwevegem, Belgium, ³ Asco Industries-CREAS (Research Centre), Hagondange, France, ⁴ Robert Bosch GmbH, Germany | |

| | TIME: 13:00–15:00 R00M: F0YER, E1/M1 |
|------------------|---|
| P2 | Thursday September 21, 2017 |
| 14 | Symposium B.1: Advanced High Strength Steels |
| | ROLE OF MICROSTRUCTURE IN HYDROGEN EMBRITTLEMENT OF ADVANCED HIGH-STRENGTH STEELS |
| B1-P-THU-P2-6 | Dr. Yuriy Yagodzinskyy¹, Dr. Suvi Papula¹, Dr. Olga Todoshchenko¹, Dr. Klemens Mraczek², Prof. Hannu Hanninen¹ |
| | ¹ Aalto University School of Engineering, Espoo, Finland, 2voestalpine Stahl GmbH, Linz, Austria |
| | STUDY OF DUCTILE DAMAGE EVOLUTION UNDER LOAD-UNLOAD CYCLIC TEST IN A DUAL PHASE STEEL |
| B1-P-THU-P2-7 | MSc. Juan Manuel Anduquia Restrepo¹, MSc. Carlos Alberto Narváez Tovar¹, PhD. Rodolfo Rodríguez Baracaldo¹, PhD. Henry Octavio Cortés Ramos¹ ¹Universidad Nacional de Colombia, Bogotá, Colombia |
| | FRACTURE TOUGHNESS AND CRACK GROWTH EVALUATION FOR DUAL PHASE STEEL |
| B1-P-THU-P2-8 | Mechanical Engineer Cristian Camilo Pérez Velásquez ¹ , PhD Rodolfo Rodriguez Baracaldo ¹ , Msc Carlos Alberto Narvaez Tovar ¹ |
| | ¹ Universidad Nacional De Colombia, Bogotá, Colombia |
| | MICROSTRUCTURE EVALUATION OF AISI 347 STEEL SAMPLES WELDED BY LASER BEAM WELDING PROCESS |
| B1-P-THU-P2-9 | Juliana Ribeiro Peçanha ^{1,2} , Suzana Bottega Peripolli ^{2,3} , José Brant de Campos ³ , Hector Reynaldo Meneses Costa ¹ , Bianca Ferreira Gomes ² , Leandro Guimarães de Oliveira ² |
| | ¹Centro Federal de Educação Tecnológica Celso Suckow da Fonseca (CEFET/RJ)., Av. Maracanã, 229 - Maracanã, Rio de Janeiro - RJ, 20271-110, Brazil, ²IST Solda, Rua São Francisco Xavier,601, Maracanã, Rio de Janeiro, Brazil, ³Universidade do Estado do Rio de Janeiro, Rua Fonseca Telles 121, São Cristóvão, Rio de Janeiro, RJ, Brasil, CEP: 20940-240., Brazil |
| | RELATIONSHIPS BETWEEN PHASE MORPHOLOGY EVOLUTION AND ANNEALING VARIABLES IN SUPERDUPLEX STAINLESS STEEL UNS \$32750 AND RELATED MODEL ALLOYS |
| B1-P-THU-P2-10 | <u>Damien Tresallet</u> ¹ , Dr. Hugo Van Landeghem ¹ , Dr. Florent Krajcarz ² , Dr. Catherine Tassin ¹ , Dr. Yves Du Terrail ¹ , Dr. Jean-Denis Mithieux ² , Pr. Muriel Veron ¹ |
| | ¹ Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000 Grenoble, France, ² Aperam Stainless Steel Research Center, Isbergues, France |
| | THE INFLUENCE OF La AND Ce ADDITION ON INCLUSION MODIFICATION IN As-CAST NIOBIUM MICROALLOYED STEELS |
| B1-P-THU-P2-11 | Ir H. Torkamani ² , Dr. Shahram Raygan ² , Dr. Carlos Garcia-Mateo ¹ , Dr. Jafar Rassizadehghani ² , Ir. Javier Vivas ¹ , Dr. Yahya Palizdar ³ , Dr. David San-Martin¹ |
| | ¹ Department of Physical Metallurgy, National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, ² School of Metallurgy and Materials Engineering, College of Engineering, University of Tehran, Tehran, Iran, ³ Materials and Energy Research Center, Karaj, Spain |
| D4 D TIIII D0 40 | VISUALIZATION OF HYDROGEN DISTRIBUTION IN STEELS BY UTILIZING IN-SITU SILVER DECORATION TECHNIQUE |
| B1-P-THU-P2-12 | <u>Daisuke Yamasaki</u> ¹, Motomichi Koyama¹, Kaneaki Tsuzaki¹ ¹Kyushu University, Fukuoka city, Japan |
| D1 D TUIL D2 12 | EFFECTS OF FERRITE/MARTENSITE MORPHOLOGY IN DAMAGE EVOLUTION BEHAVIOR OF DUAL-PHASE STEELS |
| B1-P-THU-P2-13 | Arata Shojima¹, Motomichi Koyama¹, Shusaku Takagi², Kaneaki Tsuzaki¹ ¹Kyushu University, Fukuoka City, Japan, ²JFE Steel Corporation, Steel Research Laboratory, , Japan |
| B1-P-THU-P2-14 | EFFECTS OF SOLUTE HYDROGEN ON DEFORMATION-INDUCED HCP MARTENSITE IN AN AUSTENITIC STEEL |
| DI-F-INO-F2-14 | Natsuki Terao¹¹¹Kyushu University, Fukuoka City, Japan |
| B1-P-THU-P2-15 | EFFECT OF Mo-ALLOYING ON HYDROGEN SOLUBILITY AND TRAPPING IN METASTABLE AUSTENITIC STAINLESS STEELS |
| | Arnaud Macadre ¹ , Yuriy Yagodzinskyy ² , Evgenii Malitckii ² , Hannu Hanninen ² , Setsuo Takaki ^{1,3} ¹ International Institute For Carbon-neutral Energy Research, Fukuoka, Japan, ² Aalto University, Dept. of Mechanical Engineering, Aalto, Finland, ³ Kyushu University, Fukuoka, Japan |
| N. D | STRUCTURE AND PHYSICAL-MECHANICAL PROPERTIES OF HIGH-STRENGTH CLAD CONSTRUCTIONAL STEELS |
| B1-P-THU-P2-16 | Mrs Evgeniia Putilova ¹ , Mr Sergey Zadvorkin1, Mr Edward Gorkunov ¹ 'The Institute Of Engineering Science, Ras (ural Branch), Ekaterinburg, Russian Federation |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
|----------------|---|-------------------|--------------------|
| P2 | Thursday September 21, 2017 | | |
| FZ. | Symposium B.1: Advanced High S | Strength Steels | |
| B1-P-THU-P2-17 | ENHANCEMENT OF TENSILE ELONGATION IN AL-Zr ADDED HIS STEELS BY MICROSTRUCTURE CONTROL | GH-Cr ODS | |
| | Dr. Noriyuki Iwata¹, Dr. Sang-hoon Noh³, Dr. Yoo-sung Ha⁴, Dr. Akihiko Kimura⁵ ¹Department of Materials System Engineering, National Institute of Technology, Kurume College, , Japan, ²Department of Materials Science and Engineering, National Institute of Technology, Kurume College, , Japan, ³Nuclear Materials Development Division, Korea Atomic Energy Research Institute, Daejeon, South Korea, 'Nuclear Safety Research Center, Japan Atomic Energy Agency, Japan, 5Institute of Advanced Energy, Kyoto University, Japan | | |
| B1-P-THU-P2-18 | PROCESSING AND EVALUATION OF FERRITIC-BAINITIC MULTI | -PHASE STEEL | |
| | Mr. Mohamed Safa¹, Professor Dr. Samir Ibrahim², Professor Dr. Sabbah Ataya² ¹EZDK, Alexandria, Egypt, 2Department of Metallurgy and Materials Enginee Suez University, Suez, Egypt | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
|-----------------|---|--|
| P2 | Thursday September 21, 2017 | |
| FZ | Symposium B.4: Advanced properties of SPD-processed metallic materials | |
| B4-P-THU-P2-1 | FORMATION OF ULTRAFINE GRAINED STRUCTURE IN A Mg-Al-Zn-Mn ALLOY PROCESSED BY ROTARY SWAGING | |
| | Natalia Martynenko ^{1,2} , Elena Lukyanova ^{1,2} , Vladimir Serebryany ² , Mikhail Gorshenkov ³ , Mikhail Morozov ² , Vladimir Yusupov ² , Sergey Dobatkin ^{1,2} , Yuri Estrin ^{1,4} 1 Laboratory of Hybrid Nanostructured Materials, National University of Science and Technology "MISIS", Moscow, Russian Federation, ² A.A. Baikov Institute of Metallurgy and Materials Science of Russian Academy of Sciences, Moscow, Russian Federation, ³ National University of Science and Technology "MISIS", Moscow, Russian Federation, ⁴ Department of Materials Science and Engineering, Monash University, Melbourne, Australia | |
| | EFFECT OF ECAP ON THE PRECIPITATION EVOLUTION AND MECHANICAL PROPERTIES OF A NEWLY DEVELOPED ALUMINUM ALLOY | |
| B4-P-THU-P2-2 | Jahanzaib Malik ¹ , Dr. Bilal Mansoor ² , Wahaz Nasim ¹ , Dr Ibrahim Karaman ¹ , Dr Dinc Erdeniz ³ , Dr David Dunand ³ 'Texas A&M University, College Station, USA, ² Texas A&M University at Qatar, Doha, Qatar, ³ Northwestern University, Evanston, USA | |
| | THERMAL STABILITY OF ULTRA-FINE GRAINED LOW ALLOYED Cu-Cr-Zr ALLOY | |
| B4-P-THU-P2-3 | Anna Morozova ¹ , Andrey Belyakov ¹ , Rustam Kaibyshev ¹ 'Belgorod State University, Belgorod, Russian Federation | |
| D/ D TIIII DO / | MICROSTRUCTURE STABILITY OF ULTRAFINE-GRAINED MAGNESIUM ALLOY WE43 AT ELEVATED TEMPERATURE | |
| B4-P-THU-P2-4 | Ph.D. Jitka Stráská¹, Ph.D. Peter Minárik¹, Ph.D. Josef Stráský¹, Prof. Miloš Janeček¹¹Charles University, Prague, Czech Republic | |
| D/ D THU DO 5 | EFFECT OF DECOMPOSITION ON THE MECHANICAL PROPERTIES OF NANOCRYSTALLINE SUPERSATURATED Cu-Co alloys processed by high-pressure torsion | |
| B4-P-THU-P2-5 | Andrea Bachmaier ¹ , Georg Rathmayr ² , Reinhard Pippan ¹ ¹ Erich Schmid Institute of Materials Science, Leoben, Austria, ² microsample, Scharnstein, Austria | |
| | ULTRAFINE-GRAINED LAMINATED METALLIC COMPOSITES PRODUCED BY ARB | |
| B4-P-THU-P2-6 | <u>Dr. Heinz-Werner Höppel</u> ¹ , Frank Kümmel ¹ , Prof. Mathias Göken ¹ 1Dept. Materials Science And Engineering, Friedrich-Alexander-Universität Erlangen-nürnberg, Erlangen, Germany | |
| | MECHANICAL PROPERTIES AND MICROSTRUCTURE IN A TWIP STEEL SUBJECTED TO HIGH PRESSURE TORSION | |
| B4-P-THU-P2-7 | Ms Marina Abramova ¹ , Mr Nariman Enikeev ¹ , Mr Jung Gi Kim ² , Mr J.B. Seol ³ , Ms Marina Karavaeve ¹ , Mr Ruslan Valiev ¹ , Mr Hyoung Seop Kim ² 'Ufa State Aviation Technical University, Ufa, Russian Federation, ² Department of national science and engineering, pohang university of science and technology, Pohang, Republic of Korea, ³ National Institute of Nanotechnology (NINT), Pohang, Republic of Korea | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|----------------|--|
| P2 | Thursday September 21, 2017 |
| | Symposium B.4: Advanced properties of SPD-processed metallic materials |
| D/ D TIII D0 0 | DAMAGE TOLERANCE OF A SEVERLY PLASTICALLY DEFORMED SUPERELASTIC NITI SHAPE MEMORY ALLOY |
| B4-P-THU-P2-8 | Anton Hohenwarter ¹ , Thomas Leitner ¹ ¹Department of Materials Physics, Montanuniversitaet Leoben, Austria, Leoben, Austria |
| | HIGH STRENGTH ULTRA-FINE GRAINED AI-Mg ALLOYS VIA PHYSICAL SIMULATION |
| B4-P-THU-P2-9 | Ilchat Sabirov ¹ , Prof. Ruslan Valiev ² , Dr. Nariman Enikeev ² , Dr. Maxim Murashkin ² 'IMDEA Materials Institute, Madrid, Spain, 2Ufa State Aviation Technical University, Ufa, Russia |
| | PROCESS WINDOW FOR SEVERE PLASTIC DEFORMATION OF A FERRITIC-AUSTENITIC STEEL |
| B4-P-THU-P2-10 | <u>Katharina Schwarz</u> ¹ , Timo Müller ¹ , Anton Hohenwarter ² , Reinhard Pippan ¹ ¹ Erich Schmid Institute of Materials Science, Austrian Academy of Science, Leoben, Austria, ² Department of Materials Physics, University of Leoben, Leoben, Austria |
| B4-P-THU-P2-11 | MICROSTRUCTURAL FEATURES, MECHANICAL AND ELECTRICAL PROPERTIES OF AL-Mg-Zr alloy processed by ECAP-C and Cold Drawing |
| | Phd Ivan Lomakin ¹ , Dr. Maxim Murashkin ^{1,2} , Dr. Andrey Medvedev ² , Dr. Vil Kazykhanov ² , Professor Ruslan Valiev ^{1,2} 'Saint Petersburg State University, Saint Petersburg, Russian Federation, ² Ufa State Aviation Technical University, Ufa, Russia |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|---------------|--|
| P2 | Thursday September 21, 2017 |
| FZ T | Symposium B.7: Hybrid and Metal Organic Framework (MOF) Materials |
| B7-P-THU-P2-1 | INVESTIGATION OF PROMISING MOF MEMBRANES FOR C2H6 SEPARATIONS |
| | Assoc. Prof. Seda Keskin¹, Cigdem Altintas¹ ¹Koc University, Istanbul, Turkey |
| | TERAHERTZ MOLECULAR ROTORS AND STRUCTURAL DYNAMICS IN A ZIRCONIUM-BASED METAL-ORGANIC FRAMEWORK |
| B7-P-THU-P2-2 | Matthew Ryder ^{1,2,3} , Dr Ben Van de Voorde ⁵ , Prof. Bartolomeo Civalleri ⁴ , Dr Thomas Bennett ⁶ , Dr Sanghamitra Mukhopadhyay ² , Dr Gianfelice Cinque ³ , Prof. Felix Fernandez-Alonso ² , Prof. Dirk De Vos ⁵ , Dr Svemir Rudić ² , Prof. Jin-Chong Tan ¹ 'University Of Oxford, Oxford, United Kingdom, 'ISIS Neutron & Muon Source Facility, Rutherford Appleton Laboratory, United Kingdom, 'Diamond Light Source, Harwell Campus, United Kingdom, 'University of Turin, Torino, Italy, 5KU Leuven, Leuven, Belgium, 'University of Cambridge, Cambridge, United Kingdom |
| | REVISITING THE MICROPOROUS AL-MOF (MIL-96): FROM THE STRUCTURE DETERMINATION, SYNTHESIS OF NANOPARTICLES TO THE PROCESSING OF MIXED MATRIX MEMBRANES FOR CO2 CAPTURE |
| B7-P-THU-P2-3 | Marvin Benzaqui ^{1,2} , Dr Renjith Pillai ³ , Virginie Benoit ⁴ , Dr Antoine Tissot ² , Dr Mihail Mihaylov ⁵ , Prof Philip Llewellyn ⁴ , Prof Konstantin Hadjiivanov ⁵ , Prof Guillaume Maurin ³ , Prof Nathalie Steunou ¹ , Dr Christian Serre ² 'Institut Lavoisier de Versailles, Versailles, France, 'Institut des Matériaux Poreux de Paris, Paris, France, 'Institut Charles Gerhardt Montpellier, Montpellier, France, 'Madirel, Aix Marseille University, Marseille, France, 'Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria |
| | COMPARATIVE STUDY OF TWO NEW ONE-DIMENSIONAL COORDINATION POLYMERS, AIMIII(C204)2(H20)4, WITH DIFFERENT TOPOLOGY |
| B7-P-THU-P2-4 | <u>Professor Malika Hamadène</u> ¹ , PHD student Mohamed Al Amine Benhacine ¹ , PHD Hamza Kherfi ¹ , Professor Sofiane Bouacida ² **Usthb, Algiers, Algeria, **ZUMC, Constantine, Algeria** |
| | SUPRA-MOLECULAR ASSEMBLY IN THREE MIXED-LIGANDS COBALT(II) COMPLEXES |
| B7-P-THU-P2-5 | Professor Balegroune Fadila ¹ 1Laboratoire Cri-Ther, Faculté de Chimie, USTHB, , Algiers, Algeria |
| B7-P-THU-P2-6 | OPTOCHEMICALLY RESPONSIVE 2D NANOSHEETS OF A 3D METAL-ORGANIC FRAMEWORK (ADVANCED MATERIALS, 2017, DOI: 10.1002/ADMA.201701463) |
| | Mr. Abhijeet Chaudhari¹, Prof. Jin-Chong Tan¹ ¹University Of Oxford, Oxford, United Kingdom |

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| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
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| P2 | Thursday September 2 | 1, 201 <i>7</i> | |
| FZ | Symposium B.7: Hybrid and Metal Organic Fr | amework (MOF) | Materials |
| B7-P-THU-P2-7 | MODELING DISPERSION INTERACTIONS IN FLEXIBLE METAL- CRITICAL INFLUENCE ON PHASE STABILITY | ORGANIC FRAMEWORI | KS: |
| | Jelle Wieme ¹ , Kurt Lejaeghere ¹ , Veronique Van Speybroeck ¹ Center For Molecular Modeling, Ghent University, Zwijnaarde, Belgium | (1 | |
| B7-P-THU-P2-8 | ATOMIC FORCE MICROSCOPIC NANOINDENTATION STUDY OF FRAMEWORK CRYSTALS AND NANOSHEETS | METAL-ORGANIC | |
| | Mr Zhixin Zeng¹, Mr Jin-Chong Tan¹ ¹University of Oxford, Oxford, United Kingdom | | |
| B7-P-THU-P2-9 | PALLADIUM-BASED CATALYTIC DEVICES VIA MOFS AND ELEC | TROSPINNING | |
| | Mr Kirill Titov ¹ , Mr Dmitry Eremin ² , Mr Abhijeet Chaudhari ¹ , Prof Jin-Chong Tan ¹ | | · |
| | ¹ University Of Oxford, Oxford, United Kingdom, 2Zelinsky Institute for Organi | c Chemistry, Moscow, Russ | ia |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|---------------|--|
| D) | Thursday September 21, 2017 |
| ΓZ | Symposium B.8: High Entropy Alloys and Compositionally Complex Alloys |
| B8-P-THU-P2-1 | EVALUATION OF AN ORIGINAL GRADE OF HEA ALLOY FROM ALCRFEMNNI FAMILY |
| | Julia Olszewska ¹ , Michal Mroz ¹ , Guanzhong He ¹ , Marilyne Mondon ¹ , Prof Anna Fraczkiewicz ¹ ¹ Ecole Des Mines De St Etienne, Saint Etienne, France |
| DO D THU DO O | EXPERIMENTAL DETERMINATION OF THE ENTROPY OF SINGLE-PHASE HIGH ENTROPY ALLOYS USING DIFFERENTIAL SCANNING CALORIMETRY AT LOW TO HIGH TEMPERATURES |
| B8-P-THU-P2-2 | Sebastian Haas ¹ , M. Sc. Mike Mosbacher ¹ , DrIng. Rainer Völkl ¹ , Prof. DrIng. Uwe Glatzel ¹ **University Bayreuth, Bayreuth, Germany** |
| DO D THU DO O | PHASE STABILITY AND HIGH TEMPERATURE FRAGILITY OF NOVEL EQUIATOMIC CoCuFeMnNi HIGH-ENTROPY ALLOY |
| B8-P-THU-P2-3 | Michal Mroz ¹ , Anna Fraczkiewicz ¹ ¹ Ecole Des Mines De St Etienne, Saint Etienne, France |
| | NEW HIGH ENTROPY ALLOYS WITH SUPERIOR CHARACTERISTICS FOR MEDICAL APPLICATIONS |
| B8-P-THU-P2-4 | Doctor Dumitru Mitrica ¹ , Doctor Vasile Soare ¹ , Doctor Daniela Dumitrescu ¹ , Engineer Victoria Soare ¹ , Professor Gabriela Popescu ² , Master of Science Ionut Constantin ¹ , Master of Science Mihai Olaru ¹ , Doctor Mihai Ghita ¹ , Doctor Brandusa Ghiban ² , Doctor Eugeniu Vasile ² 'National R&d Institute For Nonferrous And Rare Metals-imnr, Pantelimon, Romania, ² University POLITEHNICA Bucharest, Bucharest, Romania |
| | HEAT TREATMENT AND DEFORMABILITY OF AL-Cr-Fe-Mn-Ni-Zr HIGH ENTROPY ALLOYS |
| B8-P-THU-P2-5 | Master of Science Mihai Olaru ¹ , Doctor Vasile Soare ¹ , Doctor Dumitru Mitrica ¹ , Doctor Valentin Dragut ¹ , Doctor Florentin Stoiciu ¹ , Professor Gabriela Popescu ² , Professor Ioan Carcea ³ |
| | ¹ National R&d Institute For Nonferrous And Rare Metals-imnr, Pantelimon, Romania, ² University POLITEHNICA Bucharest, Bucharest, Romania, 3Gheorghe Asachi Technical University of Iasi, Iasi, Romania |
| | EFFECTS OF SOLIDIFICATION CONDITIONS ON MICROSTRUCTURE AND PROPERTIES OF HIGH ENTROPY ALLOYS (HEA) OF CoCrfemnni Family |
| B8-P-THU-P2-6 | Tomasz Stasiak ¹ , Dr Jerzy Latuch ² , Prof. Dariusz Oleszak ² , Prof. Anna Fraczkiewicz ¹ |
| | ¹Mines St Etienne, France, St Etienne, France, ²Faculty of Materials Science and Engineering / WUT, Warsaw, Poland EXPERIMENTAL AND THEORETICAL STUDY ON MULTICOMPONENT AL_xCu_yFeNiCrCo HIGH |
| B8-P-THU-P2-7 | ENTROPYALLOYS |
| | Dr Katarzyna Matusiak ¹ , Dr Jakub Cieslak ¹ , Dr Katarzyna Berent ² , Dr Marianna Marciszko ² 'AGH University of Science and Technology, Faculty of Physics and Applied Computer Science, Al. Mickiewicza 30, 30-059 Krakow, Poland, ² AGH University of Science and Technology, Academic Centre for Materials and Nanotechnology, Al. Mickiewicza 30, 30-059 Krakow, Poland |

| | TIME: 13:00–15:00 ROOM: FOYER, E1/M1 |
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| Thursday September 21, 2017 Symposium B.8: High Entropy Alloys and Compositionally Complex Alloys | |
| | |
| <u>Dr Young-bum Chun</u> ¹ , Dr Gyeong Su Shin ¹ , Dr Yi-Hyun Park ² 'Nuclear Materials Development Divsion, Korea Atomic Energy Research Institute, Deajeon, South Korea, ² National Fusion Research Institute, Daejeon, South Korea | |
| | PHASE STABILITY OF THE Fe-Cr-Mn-Ni ALLOYS FROM FIRST PRINCIPLES |
| B8-P-THU-P2-9 | Mark Fedorov ¹ , Dr. Jan Wróbel ¹ , Prof. Duc Nguyen-Manh ² , Prof. Krzysztof Kurzydłowski ¹ ¹ Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, ² Culham Centre for Fusion Energy, Abingdon, United Kingdom |
| | A NOVEL PRODUCTION APPROACH FOR FeNiCoCu HIGH ENTROPY ALLOYS |
| B8-P-THU-P2-10 | Research Assistant Burak Kucukelyas ^{1,2} , Research Assistant Serzat Safaltin ¹ , Assist. Prof. Dr. Ebru Devrim Sam Parmak ² , Prof. Dr. Sebahattin Gurmen ¹ 'Istanbul Technical University, Department of Metallurgical and Materials Engineering, İstanbul, Turkey, ² Bursa Technical University, Department of Metallurgical and Materials Engineering, Bursa, Turkey |
| | MICROSTRUCTURE AND TEXTURE EVOLUTION DURING SEVERE PLASTIC DEFORMATION OF CrMnFeConi HIGH-ENTROPY ALLOY |
| B8-P-THU-P2-11 | Prof. Dr. Werner Skrotzki ¹ , Aurimas Pukenas ¹ , Bertalan Joni ² , Eva Odor ² , Prof. Dr. Tamas Ungar ^{2,3} , Dr. Anton Hohenwarter ⁴ , Prof. Dr. Reinhard Pippan ⁴ , Prof. Dr. Easo George ^{5,6} |
| | ¹TU Dresden, Dresden, Germany, ²Eötvös University Budapest, Budapest, Hungary, ³University of Manchester, Manchester, UK, ^Montanuniversität Leoben, Leoben, Austria, ⁵Oak Ridge National Laboratory, Oak Ridge, USA, ⁵University of Tennessee, Knoxville, USA |
| | PRECIPITATION BEHAVIOUR OF CrmnFeNi HIGH-ENTROPY ALLOY UNDER NICKEL ION IRRADIATION |
| B8-P-THU-P2-12 | Mr Antonio Fernandez-Caballero ¹ , Dr Edward Pickering ¹ , Prof Grace Burke ¹ , Dr Michael Gorley ² , Dr Duc Nguyen-Manh ² , Prof Paul Mummery ¹ |
| | ¹ The University of Manchester, Manchester, United Kingdom, ² CCFE, United Kingdom Atomic Energy Authority, Abingdon, United Kingdom |
| | COMPARISON OF MECHANICAL PROPERTIES OF CrMnFeCoN, Cu AND TI $_{10}$ Zr $_{21}$ HF $_{15}$ NB $_{21}$ Ta $_{10}$ HIGH ENTROPY ALLOYS WITH THE DIFFERENT CRYSTAL LATTICE IN THE TEMPERATURE RANGE OF 4.2 – 293 K. |
| B8-P-THU-P2-13 | Mr Yuriy Shapovalov ¹ , PhD Elena Tabachnikova ¹ , PhD Aleksey Podolskiy ¹ , Dr Viktor Gorban ² , Dr Sergey Firstov ² |
| | ¹ B. Verkin Institute for Low Temperature Physics and Engineering of the NAS of Ukraine, 47 Nauky Ave., Kharkiv, Ukraine, ² Frantsevich Institute for Problems of Materials Science of the NAS of Ukraine, ³ Krzhizha-novsky Str., Kyiv-142, Ukraine |

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| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | | |
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| P2 | Thursday September 21, 2017 | | |
| | Symposium B.9: Bulk Metallic Glasses | | |
| | CALIBRATION OF GLASS PAD VISCOSITY IN HOT EXTRUSION | | |
| B9-P-THU-P2-1 | <u>Dr Jonghun Yoon</u> ¹ , Youngnam Song ¹ , Dr Sung Hoon Kang ² , Dr Howon Lee ² 'Hanyang University Erica, Ansan, Republic of Korea, ² Korea Insttute of Materials Science, Changwon, Republic of Korea | | |
| DO D THU DO C | A STRATEGY FOR DESIGNING BULK METALLIC GLASS COMPOSITES WITH EXCELLENT WORK-HARDENING AND LARGE TENSILE DUCTILITY | | |
| B9-P-THU-P2-2 | Haifeng Wang ¹ 'State Key Laboratory Of Solidification Processing, Northwestern Polytechnical University, Xi'an, China | | |
| | MAGNETIC PROPERTIES OF U-BASED AMORPHOUS ALLOYS | | |
| B9-P-THU-P2-3 | Pei Zhang¹, Huogen Huang¹, Haibo Ke¹¹China Academy Of Engineering Physics, , China | | |
| | Fe-BASED GLASSY COMPOSITE PRODUCTION BY ARC MELTING | | |
| B9-P-THU-P2-4 | Hamdi Ekici ¹ , Ozen Gursoy ¹ , Eray Erzi ¹ , <u>Derya Dispinar</u> ¹ 'Istanbul University | | |
| | IMPROVEMENT OF THE MECHANICAL PROPERTIES OF Cu50Zr45Al5 BULK METALLIC GLASSES BY ADDITION OF CRYSTALLINE PARTICLES | | |
| B9-P-THU-P2-5 | Doctor Engineer Sandrine Cardinal ¹ , Professor Jean-Marc Pelletier ¹ , Mr Florian Mercier ¹ , Dr Jichao Qiao ² , Dr Guong Xie ³ , Dr Florent Delmas ¹ 'Insa Lyon, Villeurbanne, France, 2School of mechanics, Xi'an, China, 3IMR, Sendai, Japan | | |
| | MOLECULAR DYNAMICS SIMULATIONS ON THE BAUSCHINGER EFFECT IN Cu60Zr40 COMPUTER METALLIC GLASS | | |
| B9-P-THU-P2-6 | PhD Student Pablo Palomino Rico¹ 'University of Ioannina, Ioannina, Greece | | |

TIME: 13:00-15:00

ROOM: FOYER, E1/M1

| DO | Thursday September 21, 2017 |
|-----------------------|--|
| P2 — | Symposium C.1-II: Coatings and Surface Modification Techniques / Part 2 |
| | RESEARCH ON SURFACE WETTABILITY OF COPPER AND COPPER-BASED ALLOYS FOR ANTIMICROBIAL SURFACES |
| C1-II-P-THU-P2-1 | PhD Monika Walkowicz¹, PhD Piotr Osuch¹, Prof. Beata Smyrak¹, Prof. Andrzej Mamala¹, Prof. Andrzej Mamala¹, Prof. Andeusz Knych¹ 'AGH University of Science and Technology, Faculty of Non-Ferrous Metals, Department of Metal Working and Physical Metallurgy of Non-Ferrous Metals, Krakow, Poland |
| | |
| | Zn-ZnO CORE-SHELL NANOPARTICLES DEPOSITED ONTO TANTALUM NANOSTRUCTURES |
| C1-II-P-THU-P2-2 | Joana Oliveira ¹ , <u>Dr. Sebastian Calderon</u> ^{1,3} , C.F Almeida Alves ¹ , Prof. Dr. P. J. Ferreira ^{2,3} , Prof. Dr. S. Carvalho ¹ 'University of Minho, Department of Physics, Campus of Azurém, 4800-058, Guimaraes, Portugal, ² Materials Science and Engineering Program, The University of Texas at Austin, Austin, Texas 78712, USA., USA, ³ INL - International Iberian Nanotechnology Laboratory, Av. Mestre José Veiga s/n, 4715-330, Braga, Portugal |
| | MAG-CW WELDING PROCESS WITH ADDITION OF POWDER OBTAINED FROM COATED ELECTRODE OK 8358 |
| C1-II-P-THU-P2-3 | Undergraduate João Lucas Jacob Araujo ¹ , Undergraduate Rafael Barradas do Nascimento ¹ , Master Mário Viana Medeiros Filho ¹ , Doctor José Francisco Reis Sobrinho ¹ 'Instituto Federal de Ciência e Tecnologia do Piauí, Teresina, Brazil |
| | STUDY ON THE ELECTROCHEMICAL CHARACTERIZATION OF DIMENSIONALLY STABLE ANODE FOR ELECTROPLATING APPLICATIONS |
| C1-II-P-THU-P2-4 | Ph. D. Seong Ho Son ¹ , Sung Cheol Park ¹ , Jin Yeon Lee ¹ , Ph. D. Yong Hwan Kim ¹ 'Korea Institute of Industrial Technology, , Republic of Korea |
| | SURFACE PATTERNING TO IMPROVE JOINT STRENGTH OF SIC AND SIC/SIC |
| C1-II-P-THU-P2-5 | Dr Valentina Casalegno ¹ , Prof Monica Ferraris ¹ , Prof Milena Salvo ¹ , Dr Espedito Vassallo ² , Matteo Pedroni ² , Christian Wilhelmi ³ , Matthias Funke ³ , Manuela Suess ³ 'Politecnico Di Torino-disat, Torino, Italy, ² CNR, Istituto di Fisica del Plasma "P. Caldirola", Milan, Italy, ³ Airbus DS GmbH, Space Systems, Mechanical Products and Engineering GE, D-88039 Friedrichshafen, Germany |
| | REMOVABLE PARYLENE BASED BILAYER FOR BARRIER CORROSION PROTECTION OF METALLIC ARCHAEOLOGICAL ARTEFACTS |
| C1-II-P-THU-P2-6 | Lucie Blahova ¹ , Jakub Horak ¹ , Radek Prikryl ² , Frantisek Krcma ¹ **Brno University of Technology, Faculty of Chemistry, Institute of Physical and Applied Chemistry, Purkynova 118, 61200, Brno, Czech Republic, **Brno University of Technology, Faculty of Chemistry, Materials Research Centre, Purkynova 118, 61200, Brno, Czech Republic |
| | ZnO AS ANTIREFLECTIVE COATING FOR THERMOCHROMIC VO2 FILMS |
| C1-II-P-THU-P2-7 | Mr E. Gagaoudakis ^{1,2} , Dr V. Binas ^{1,2,3} , Mr G. Michail ¹ , Mrs D. Katerinopoulou ^{1,2} , <u>Dr E. Aperathitis</u> ¹ , Prof. G. Kiriakidis ^{1,2,3} "IESL / FORTH, Heraklion/Crete, Greece, ² Univerity of Crete/Physics Dpt, Heraklion/Crete, Greece, ³ Crete Center for Quantum Complexity and Nanotechnology, Department of Physics, University of Crete, Heraklion/Crete, Greece |
| | |
| C1-II-P-THU-P2-8 | THE EFFECT OF IRIDIUM ON THE PROPERTIES OF ZINC OXIDE FILMS Ms Maria Papadaki ^{1,2} , Mr Athanasios Kostopoulos ¹ , Ms Maria Androulidaki ¹ , Ms Katerina Tsagaraki ¹ , |
| 51 II 1 - III 5-F 2-0 | Dr Mircea Modreanu ³ , Professor George Kiriakidis ^{1,2} , Dr Elias Aperathitis ¹ 1FORTH/IESL, Heraklion, Greece, 2Physics Dept., Crete University, Heraklion, Greece, 3Tyndall National Institute, Cork, Ireland |
| 04 II D 7111 72 7 | INFLUENCE OF MODE OF ELECTRODEPOSITION, GRAIN SIZE ON MECHANICAL PROPERTICE OF ELECTRODEPOSITED NANOCRYSTALINE NICKEL COATINGS |
| C1-II-P-THU-P2-9 | Eng. Cezary Dziekoński¹, Phd Dariusz Jarząbek¹, Msc Wojciech Dera¹¹¹Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland |
| | STRUCTURE AND PROPERTIES OF THE SOFT MAGNETIC Fe-Zr-N NANOFILMS WITH ENHANCED MECHANICAL CHARACTERISTICS |
| C1-II-P- THU-P2-10 | Prof. Elena Sheftel ¹ , <u>Dr. Philipp Kiryukhantsev-Korneev</u> ² , Valentin Tedzhetov ¹ , Dr. Evgeny Harin ¹ , Prof. Evgeny Levashov ² , Galina Usmanova ¹ , Prof. Olga Zhigalina ³ ¹ Institute of Metallurgy and Material Science, RAS, Moscow, Russian Federation, 2National University Of Science And Technology Misis, Moscow, Russian Federation, 3Shubnikov Institute of Crystallography, RAS, Moscow, Russian Federation |
| | EMPLOYMENT OF THE OPERATIONAL CENTRIFUGAL FORCES OF THE TURBINE TO RESIST THE CALCIUM-MAGNESIUM-ALUMNINOSILICATES INFILTRATION IN A EB-PVD THERMAL BARRIER COATING: A NUMERICAL SIMULATION |
| C1-II-P-THU-P2-11 | student Vasileios Katranidis ¹ , Professor of Coatings Technology John Nicholls ² , Dr Christine Chalk ² ¹ University Of Surrey, Chemical and process Engineering, Guildford, United Kingdom, ² University of Cranfield, Surface Engineering & Nanotechnology Institute, Cranfield, United Kingdom |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|-----------------------|---|
| P2 | Thursday September 21, 2017 |
| 12 | Symposium C.1-II: Coatings and Surface Modification Techniques / Part 2 |
| C1-II-P- THU-P2-12 | SILICIDE COATING ON Ti-46AL-8TA (AT.%) — ASSESSMENT OF GROWTH MECHANISM THROUGH DIFFUSION-COUPLE EXPERIMENTS |
| | Katarzyna Rubacha ¹ , Elzbieta Godlewska ¹ , Krzysztof Mars ¹ , Marzena Mitoraj-Krolikowska ¹ 'AGH University Of Science And Technology, Krakow, Poland |
| C1-II-P- THU-P2-13 | THE INFLUENCE OF THE PHOSPHOROUS CONTENT AND HEAT TREATMENT ON THE NANO-MICRO- STRUCTURE, THICKNESS AND MICRO-HARDNESS OF ELECTROLESS Ni-P COATINGS ON STEEL |
| | Professor George Kaptay ¹ , Mr Máté Czagány ¹ , Dr Peter Baumli ¹ ¹ University Of Miskolc, Hingary |
| C1_II_D_ | CHARACTERIZATION OF YB3+ DOPED Y203 THIN FILMS PREPARED BY ELECTRON BEAM EVAPORATION METHOD |
| C1-II-P- THU-P2-14 | Msc Fatma Ünal ¹ , Msc Elif Emil ¹ , Prof.Dr Sebahattin Gürmen ¹ , Prof.Dr Kürşat Kazmanlı ¹ , Prof.Dr Mustafa Ürgen ¹ **Istanbul Technical University, Istanbul, Turkey |
| 04 11 0 | ENHANCED PHOTOCATALYTIC ACTIVITY OF TITANIUM DIOXIDE PHOTONIC CRYSTALS MODIFIED WITH PHOTODEPOSITED PLATINUM NANOPARTICLES |
| C1-II-P- THU-P2-15 | M.Sc. Joanna Ginter ¹ , M.Sc. Kaja Spilarewicz-Stanek ¹ , Dr Aneta Kisielewska ¹ , Prof. Ireneusz Piwoński ¹ 'University of Lodz, Faculty of Chemistry, Department of Materials Technology and Chemistry, Lodz, Poland |
| C1-II-P- | TUNABLE WETTABILITY OF THIN POLYMER FILMS ON MICROSTRUCTURED SILICON SURFACES |
| THU-P2-16 | Maria Kanidi ¹ , Aris Papagiannopoulos ¹ , Athanasios Skandalis ¹ , Stergios Pispas ¹ , Maria Kandyla ¹ 'National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece |
| C1-II-P- | THE ROLE OF OSTWALD RIPENING AND COALESCENCE IN PHOTOCATALYTIC GROWTH OF SILVER NANOPARTICLES ON TITANIUM DIOXIDE COATINGS |
| THU-P2-17 | MSc Kaja Spilarewicz-Stanek ¹ , PhD Aneta Kisielewska ¹ , Sc. D. Ireneusz Piwoński ¹ ¹ University Of Lodz, Faculty Of Chemistry, Department Of Materials Technology And Chemistry, Łódź, Poland |
| | EFFECT OF THE PREFERRED ORIENTATION ON THE ELECTROCHROMIC PROPERTIES OF TUNGSTEN OXIDE COATINGS GROWN BY A LPCVD SYSTEM |
| C1-II-P- THU-P2-18 | <u>Dr Dimitrios Louloudakis</u> ^{1,2} , Dr Dimitra Vernardou ^{1,3} , Dr Giorgos Papadimitropoulos ⁴ , Dr Dimitris Davazoglou ⁴ , Prof Emmanouel Koudoumas ^{1,3} |
| | ¹ Center of Materials Technology and Photonics, School of Applied Technology, Technological Educational Institute of Crete, 710 04, Heraklion, Greece, ² Department of Physics, University of Crete 711 00, Heraklion, Greece, ² Department of Electrical Engineering, School of Applied Technology, Technological Educational Institute of Crete, 710 04, Heraklion, Greece, ⁴ NCSR "Demokritos", Institute of Nanoscience and Nanotechnology, P.O. Box 60228, 15310, Agia Paraskevi, Athens, Greece |
| C1-II-P- THU-P2-19 | DYNAMIC WETTABILITY CONTROL THROUGH STRETCHING OF BILAYER POLYMER FILMS |
| | Catalin Mihai Balan ^{1,2} , Vincent Senez ¹ , <u>Alexis Vlandas</u> ¹ ¹ BioMEMS, Univ. Lille, CNRS, ISEN, UMR 8520 - IEMN, Lille, France, ² University of Southampton Waterfront Campus, Southampton, United Kingdom |
| | SILVER/HYDROXYAPATITE HYBRID COATINGS ON Ti-6AL-4V SURFACES BY SOL-GEL METHOD |
| C1-II-P- THU-P2-20 | Burak Dikici ¹ , Serap Gungor Koc ² , Mehmet Topuz ² , Mitsuo Niinomi ³ , Masaaki Nakai ⁴ 'Ataturk University, Department of Metallurgical and Materials Engineering, Erzurum 25240, Turkey, ² Yuzuncu Yil University, Department of Mechanical Engineering, Van 65080, Turkey, ³ Tohoku University, Institute for Materials Research, Sendai, Miyagi 980-8577, Japan, 4Kindai University, Department of Mechanical Engineering, Higashiosaka, Osaka 577-8502, Japan |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P2 | Thursday September 21, 2017 |
| ΓZ | Symposium C.3: Powder routes: from synthesis to processing |
| C3-P-THU-P2-1 | PROCESSING AND VIBRATIONAL PROPERTIES OF LANTHANIDE GERMANATES |
| | <u>Dr Anderson Dias</u> ¹ , Pamela Coelho ¹ , Roberto Moreira ² ¹Federal University Of Ouro Preto, Ouro Preto, Brazil, ²Federal University of Minas Gerais, Belo Horizonte, Brazil |
| | FABRICATION OF POROUS TITANIUM BY METAL INJECTION MOLDING USING POLYSTYRENE |
| C3-P-THU-P2-2 | Dr. Wonsik Lee ¹ , Graduate Student Kyungwook Kim ¹ , ² , Dr. Kyou-Hyun Kim ¹ , Mr. Jin Man Jang ¹ , Dr. Yong-Dae Kim ¹ ¹ Korea Institute of Industrial Technology, Incheon, South Korea, ² Korea University, Seoul, South Korea |
| C3-P-THU-P2-3 | NANOCRYSTALLINE NIAL INTERMETALLIC ALLOY PRODUCED BY MECHANICAL ALLOYING AND HOT-PRESSING CONSOLIDATION |
| | <u>Dr Marek Krasnowski</u> ¹ , Dr Stanislaw Gierlotka ² , Prof Tadeusz Kulik ¹ ¹ Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland, ² Institute of High Pressure Physics, Polish Academy of Sciences, Warsaw, Poland |
| 00 D TIIII D0 / | MORPHOLOGY CONTROL OF AG PARTICLES ELECTROCHEMICALLY RECOVERED FROM C-SI PV CELL BY CHANGING CURRENT DENSITY |
| C3-P-THU-P2-4 | <u>Dr. Jin-seok Lee</u> ¹ , Dr. Young-Soo Ahn ¹ , Dr. Gi-Hwan Kang ¹ 'Korea Institute Of Energy Research, Daejeon, Republic of Korea |
| | FABRICATION TECHNOLOGIES OF OPEN CELLED POROUS TITANIUM USING POWDER INJECTION MOLDING |
| C3-P-THU-P2-5 | Mr Jin Man Janq ¹ , Mr Kyoung-Wook Kim ¹ , Doctor Kyou-Hyum Kim ¹ , Doctor Yong-Dae Kim ¹ , Doctor Wonsik Lee ¹ , Mr. Yong-In Kim ¹ 1Korea Institute Of Industrial Technology, Incheon, Korea |
| <i>T</i> | HIGH-VOLTAGE CONSOLIDATION OF TUNGSTEN HEAVY ALLOYS POWDERS |
| C3-P-THU-P2-6 | <u>Prof. Evgeny Grigoryev</u> ¹ , Ms. Natalia Ermakova ¹ , Mr. Sergey Bashlykov ¹ , Prof. Vladimir Golstev ¹ 'NRNU MEPhl, Moscow, Russian Federation |
| | MICROSTRUCTURAL INVESTIGATIONS OF NITI MATERIALS OBTAINED BY MECHANICAL ALLOYING AND SPARK PLASMA SINTERING |
| C3-P-THU-P2-7 | Dr. Eng. Diana Cirstea ^{1,2} , Dr. Eng. Magdalena Lungu ¹ , Dr. Felicia Tolea ³ , Dr. Gabriela Sbarcea ¹ , Dr Anatoly, M Balagurov ⁴ , Eng. Vasile Cirstea ² 'National Institute for Research and Development in Electrical Engineering, Bucharest, Romania, ² Research and Development Center for design and optimization of technological processes, Bucharest, Romania, ³ National Institute for Materials Physics, Magurete, Romania, ⁴ Joint Institute for Nuclear Research Frank Laboratory of Neutron Physics, Dubna, Russia |
| | GRADIENT STRUCTURES IN MATERIALS AS A RESULT HIGH-VOLTAGE CONSOLIDATION POWDER |
| C3-P-THU-P2-8 | Prof. Evgeny Grigoryev ¹ , Mr. Artem Yudin ¹ , Mr. Sergey Bashlyikov ¹ 'NRNU MEPhl, Moscow, Russian Federation |
| | SPARK PLASMA SINTERING OF A TIAL ALLOY: FROM THE DEVELOPMENT OF A NUMERICAL TOOL TO THE FABRICATION OF COMPLEX SHAPES |
| C3-P-THU-P2-9 | M. David Martins ¹ , Miss Fanny Grumbach ¹ , Dr Charles Maniere ¹ , Dr Pierre Sallot ² , Prof Katia Mocellin ³ , Prof Michel Bellet ³ , Dr Claude Estournes ¹ 1 CIRIMAT, Toulouse, France, SAFRAN CRT, Magny-les-Hameaux, France, CEMEF Mines ParisTech, Sophia-Antipolis, France |
| | LASER POWER INFLUENCE ON RAMAN SPECTRA OF ZnO(CO) NANOPARTICLES |
| C3-P-THU-P2-10 | PhD Branka Hadžić ¹ , PhD Nebojša Romčević ¹ , PhD Maja Romčević ¹ , PhD Martina Gilić ¹ , PhD Jelena Trajić ¹ , PhD Dušanka Stojanović ¹ *Institute Of Physics, University of Belgrade, Belgrade, Serbia |
| | MECHANICAL PROPERTIES OF CRYOMILLED AND SPARK PLASMA SINTERED TITANIUM |
| C3-P-THU-P2-11 | <u>Jiří Kozlík</u> ¹ , Hanka Becker ² , Max Hoppe ² , Josef Stráský ¹ , Ilya Ibragimov ¹ , Miloš Janeček ¹ ¹ Charles University, Department of Physics of Materials, Prague, Czech Republic, ² TU Bergakademie Freiberg, Institute of Materials Science, Freiberg, Germany |
| 00 P TIII TO 10 | MECHANICAL ACTIVATION OF THE NIO/AL ALUMINOTHERMIC SYSTEM BY HIGH-ENERGY BALL MILLING AND ITS EFFECT ON COMPOSITES SYNTHESIS BY SHS |
| C3-P-THU-P2-12 | Ms Hafida Boutefnouchet 1, Dr Caroline Curfs², Dr Dominique Vrel³ ¹University Of Annaba - LMGM, Annaba, Algeria, ²ESRF, Grenoble, France, ³CNRS, LSPM, Paris, France |

| Thursday September 2 | 1, 201 <i>7</i> | |
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| Symposium C.3: Powder routes: from sy | nthesis to process | sing |
| JNING THE MAGNETIC BEHAVIOR OF ULTRALIGHT Fe-OXID | E FOAMS BY Mn ADDI | TION |
| | | rs Baró¹, |
| niversitat Autònoma de Barcelona, Departament de física, E-08193 Bell CREA, Pg. Lluís Companys 23, E-08010 Barcelona, Spain | aterra, Cerdanyola del Vallè | s, Spain, |
| ADDITION EFFECT ON QUASICRYSTALLINE PHASE FORM, ECHANICALLY ALLOYED POWDER | ATION IN Al-Cu-Fe | |
| ikolaj Mitka ¹ , Anna Góral ¹ , Lidia Lityńska-Dobrzyńska ¹ Institute of Metallurgy and Materials Science Polish Academy of Sciences | , Cracow, Poland | |
| r | Symposium C.3: Powder routes: from sy NING THE MAGNETIC BEHAVIOR OF ULTRALIGHT Fe-OXID Pau Solsona 1, PhD Yuping Feng 1, Dr Jordina Fornell 1, Dr Eva Pellicer 1, Professor Santiago Suriñach 1, Dr Eva Pellicer 1, Professor iversitat Autònoma de Barcelona, Departament de física, E-08193 Bello REA, Pg. Lluís Companys 23, E-08010 Barcelona, Spain ADDITION EFFECT ON QUASICRYSTALLINE PHASE FORM, CHANICALLY ALLOYED POWDER kolaj Mitka 1, Anna Góral 1, Lidia Lityńska-Dobrzyńska 1 | ADDITION EFFECT ON QUASICRYSTALLINE PHASE FORMATION IN AL-Cu-Fe CHANICALLY ALLOYED POWDER |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| D2 | Thursday September 21, 2017 |
| FZ | Symposium C.4: Additive Manufacturing |
| | THICKNESS DEPENDENT FATIGUE PROPERTIES OF ADDITIVE MANUFACTURED TIGAL4V WITH AS-BUILT SURFACE |
| C4-P-THU-P2-1 | M.Sc. Magnus Kahlin ^{1,2} , Dr Torsten Sjögren ⁴ , Dr Hans Ansell ^{1,3} , Dr Johan Moverare ² |
| | ¹ Saab AB, Aeronautics, Linköping, Sweden, ² Division of Engineering Materials, Linköping University, Linköping, Sweden, ³ Division of Solid Mechanics, Linköping University, Linköping, Sweden, ⁴ RISE, Research Institute of Sweden, Borås, Sweden |
| | H13/TiB2 COMPOSITE PROCESSED BY SELECTIVE LASER MELTING TECHNOLOGY |
| C4-P-THU-P2-2 | <u>Dr Dariusz Grzesiak</u> ¹, Dr Marta Krawczyk¹, Dr Bandar AlMangour² |
| | ¹ West Pomeranian University of Technology Szczecin, Szczecin, Poland, ² Harvard University, Cambridge, USA |
| | THE EFFECT OF PROCESS PARAMETERS ON MICROSTRUCTURE, POROSITY AND DEFECTS DURING SELECTIVE LASER MELTING OF INCONEL 718 MATERIAL |
| C4-P-THU-P2-3 | Mr. Konstantinos Georgilas ^{1,2} , Mr Utkarsha Ankalkhope³, Dr Mehmet E. Kartal², Dr Raja Khan³ |
| | ¹ National Structural Integrity Research Centre, Cambridge, United Kingdom, ² School of Engineering, University of Aberdeen, Aberdeen, United Kingdom, ³ TWI Ltd., Cambridge, United Kingdom |
| | FRACTURE MECHANISMS OF ALSi10Mg PARTS PRODUCED BY SELECTIVE LASER MELTING: Influence of Si precipitates and al cell size |
| C4-P-THU-P2-4 | Engineer Jocelyn Delahaye ¹ , Doctor Engineer Anne Mertens ¹ , Engineer Olivier Dedry ¹ , Engineer Olivier Rigo ² , Professor Doctor Bénédicte Vertruyen ³ , Professor Doctor Engineer Jacqueline Lecomte-Beckers ¹ |
| | ¹ University of Liège, A&M Department, Metallic Materials Science Unit, Liège, Belgium, ² Sirris Research Center, Liège, Belgium, ³ University of Liège, LCIS-GreenMat, Department of Chemistry, Liège, Belgium |
| 0/ D TIII D0 F | INVESTIGATION INTO THE PARAMETERS AFFECTING FILTER CAKES PRODUCED DURING FILTRATION PROCESS |
| C4-P-THU-P2-5 | Ms Bornia Benouis ¹ , Mr Abdallah Hafsaoui ¹ |
| | ¹ LVRM, Department of Mining. University Of Badji Mokhtar- Annaba, Annaba, Algeria |
| | ULTRA-HIGH RESOLUTION ELECTROHYDRODYNAMIC AM TECHNIQUE WITH SUPERIOR PRINTING SPEED |
| C4-P-THU-P2-6 | MSc levgenii Liashenko ^{1,2} , Dr. Andreu Cabot ^{1,3} , Dr. Joan Rosell Llompart ^{2,3} |
| | ¹Institut de Recerca en Energia de Catalunya, Barcelona, Spain, ²Universitat Rovira i Virgili, Tarragona, Spain, ³ICREA - the Catalan Institution for Research and Advanced Studies, Barcelona, Spain |
| | INFLUENCE OF THE PARTICLE SIZE DISTRIBUTION ON SURFACE QUALITY AND MECHANICAL PROPERTIES OF SLM PROCESSED Co-Cr Parts |
| C4-P-THU-P2-7 | Marta Krawczyk¹, Darek Grzesiak¹ ¹West Pomeranian University Of Technology, Szczecin, Szczecin, Poland |
| | INTERFACE QUALITY INFLUENCE IN METAL-POLYMER PARTS PRODUCED BY ADDITIVE MANUFACTURING |
| C4-P-THU-P2-8 | Dr. André Cavaleiro ¹ , Diogo Fula ¹ , Dr. Margarida Machado ¹ , Prof. Rui Neto ^{1,2} , Prof. Ana Reis ^{1,2} |
| | ¹ INEGI, Instituto de Ciência e Inovação em Eng. Mecânica e Eng. Industrial, Porto, Portugal, ² FEUP, Faculdade de Engenharia da Universidade do Porto, Porto, Portugal |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| D2 | Thursday September 21, 2017 |
| PZ | Symposium C.4: Additive Manufacturing |
| C4-P-THU-P2-9 | AN EXPERIMENTAL APPROACH FOR ADDITIVE MANUFACTURING OF GYPSUM PLASTER PASTES |
| | Rui Soares ¹ , Margarida Machado ¹ , André J. Cavaleiro ¹ , Rui Neto ^{1,2} , Abílio Jesus ^{1,2} , Ana Reis ^{1,2} ¹ INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering, Porto, Portugal, ² FEUP - Faculty of Engineering of University of Porto, Portugal |
| C4-P-THU-P2-10 | INFLUENCE OF PROCESS PARAMETERS ON PROPERTIES AND MICROSTRUCTURE OF Cu-alloy parts fabricated by laser sintering |
| | Eric Bojestig ¹ , Prof. Lars Nyborg ¹ , Prof. Eduard Hryha ¹ ¹ Chalmers University of Technology, Gothenborg (Göteborg), Sweden |
| | CORROSION BEHAVIOR OF ALLOY 718 MANUFACTURED BY DIFFERENT PROCESSES |
| C4-P-THU-P2-11 | Dr. Teresa Guraya ¹ , Dr. Pello Jimbert ¹ , Dr. Roberto Fernandez-Martinez ¹ , Dr. Aitzol Lamikiz ² , Dr. Alberto Etxebarria ³ ¹ University Of The Basque Country, Bilbao, Spain, ² University Of The Basque Country, Bilbao, Spain, ³ Lortek S. Coop, Orditzia, Soain |
| | DESIGN AND FABRICATION OF 3D PRINTED DRUG DELIVERY SYSTEMS |
| C4-P-THU-P2-12 | <u>Tiffany Tang</u> ^{1,2} , Dr. Tara Schiller ¹ , Professor Tony McNally ¹ , Professor George Simon ² 1 Warwick Manufacturing Group, University Of Warwick, Coventry, United Kingdom, 2 Monash University, Clayton, Australia |
| | DESIGNING A NOVEL Fe-Ni-AL MARAGING STEEL FOR LASER METAL DEPOSITION EXPLOITING INTRINSIC HEAT TREATMENT |
| C4-P-THU-P2-13 | <u>Philipp Kürnsteiner</u> ¹ , Markus Benjamin Wilms ² , Andreas Weisheit ² , Pere Barriobero-Vila ³ , Eric Aimé Jägle ¹ , Dierk Raabe ¹ |
| | ¹ Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany, ² Fraunhofer-Institut für Lasertechnik, Aachen, Germany, ³ Vienna University of Technology, Vienna, Austria |
| | CORROSION BEHAVIOR OF ALLOY 718 MANUFACTURED BY AM PROCESSES |
| C4-P-THU-P2-14 | Dr. Teresa Guraya ¹ , Dr. Peio Jimbert ¹ , Dr. Roberto Fernandez-Martinez ¹ , Dr. Aitzol Lamikiz ¹ , Dr. Alberto Echeberria ² , Dr. Joseph Buhagiar ³ ¹ University Of The Basque Country, Bilbao, Spain, ² Lortek S.Coop., Orditzia, Spain, ³ University of Malta, Msida, Malta |
| | MICROSTRUCTURE STABILITY OF 8-SOLIDIFYING TIAL ALLOYS PRODUCED BY SELECTIVE LASER MELTING |
| C4-P-THU-P2-15 | Dr. Joachim Gussone ¹ , Dr. Jan Haubrich ¹ , Dr. Gerardo Garces ² , Dr. Andreas Stark ³ , Dr. Yves-Christian Hagedorn ⁴ , Dr. Norbert Schell ³ , <u>Prof. Guillermo Requena</u> ¹ ¹ German Aerospace Center (DLR), Cologne, Germany, ² National Center for Metallurgical Research (CENIM-CSIC), Madrid, Spain, ³ Helmholtz-Zentrum Geesthacht (HZG), Geesthacht, Germany, ⁴ Fraunhofer Institute for Laser Technology (ILT), Aachen, Germany |
| | SELECTIVE LASER MELTING OF CuCr1Zr |
| C4-P-THU-P2-16 | Katia Artzt ¹ , Dr. Jan Haubrich ¹ , Prof. Dr. Guillermo Requena ¹ ¹ German Aerospace Center (DLR), Germany |
| 0/ D TIIII D0 17 | FABRICATION OF MOUTH GUARDS WITH ANTIMICROBIAL PROPERTY USING MATERIAL EXTRUSION 3D PRINTING |
| C4-P-THU-P2-17 | Mr Ehsan Jazaeri ¹ , Ms Tiffany Tang ² Monash University, Clayton, Australia, ² University of Warwick, coverntry, UK |
| | FORGING OF ADDITIVE LAYER MANUFACTURED PREFORMS |
| C4-P-THU-P2-18 | <u>Dr Timur Khismatullin</u> ¹ , Dr Malgorzata Rosochowska ¹ ¹ Advanced Forming Research Centre, University of Strathclyde, Inchinnan, Renfrew, United Kingdom |
| | WIRE ARC ADDITIVE MANUFACTURING OF FUNCTIONALLY GRADED DEPOSITS |
| C4-P-THU-P2-19 | Milan Agnani ¹ , Constantinos Goulas ^{1,2} , Wei Ya ^{2,3} , Marcel Joseph Marie Hermans ¹ ¹ Delft University of Technology, Department of Materials Science and Engineering, Mekelweg 2, 2628 CD Delft, The Netherlands, ² Rotterdam Additive Manufacture Fieldlab (RAMLAB), Scheepsbouwweg 8 - K03, 3089 JW, Rotterdam, The Netherlands, ³ University of Twente, Chair of Applied Laser Technology, MS3 Department, Engineering Technology, P.O. Box 217, 7500 AE Enschede, The Netherlands |
| | 3D PRINTED STRUCTURES FOR CHEMISTRY AND ENERGY APPLICATIONS |
| C4-P-THU-P2-20 | Vesna Middelkoop¹ ¹VITO (Flemish Institute for Technological Research), Sustainable Materials Management, Belgium |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
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| Thursday September 21, 2017 Symposium C.5: Interface Design and Modelling, Wetting and High-Temperature Capillarity | | | |
| | | | |
| C5-P-THU-P2-1 | RESEARCH ON OPTICAL ADHESIVES FOR TERABIT NETWOR | K | |
| | Prof. Seiko Mitachi ¹ , Mr. Daigo Kikuchi ¹ , Mr. Yuuichi Kage ¹ Tokyo Universty of Technology, 1404-1 Katakura, Hachioji, Tokyo, Japan, 2-1 Oiwake, Hiratshuka, Kanagawa, Japan | | |
| | CHEMICAL REACTION OF Ga BASED ALLOYS ON Cu SUBSTR | ATE | |
| C5-P-THU-P2-2 | <u>Dr Tomasz Gancarz</u> 1, Dr Katarzyna Berent² | | |
| | ¹ Institute of Metallurgy And Materials Science Pas, Krakow, Poland, ² AGH Centre for Materials and Nanotechnology, Krakow, Poland | University of Science and Te | echnology, Academic |
| | SURFACE ENGINEERING TO IMPROVE CMC JOINTS: MECHAI | NICAL CHARACTERIZA | TION |
| C5-P-THU-P2-3 | <u>Dr Valentina Casalegno</u> 1, Fabrizio Valenza², Maria Luigia | Muolo², Milena Salvo | o ¹ , Monica Ferraris ¹ |
| | ¹ Politecnico Di Torino- Department of Applied Science and Technology (Di Institute of Condensed Matter Chemistry and Technologies for Energy (CN | ISAT), Torino, Italy, ² Nationa IR-ICMATE), Genoa, Italy | al Research Council - |
| OF D THU DO / | WETTING AND INTERFACIAL REACTIVITY OF Zn-COATED STI Cu-Si, Cu-Sk and al-si filler metals for laser brazi | | |
| C5-P-THU-P2-4 | Dr. Alexey Koltsov¹, Dr. Laurent Cretteur² | | |
| | ¹ ArcelorMittal Research, Maizières-lès-metz, France, ² ArcelorMittal Resea | rch, Montataire, France | |
| | GRAIN BOUNDARY WETTING AND SPD-INDUCED PHASE TRAND TI-4 WT.% V-6 WT.% AL ALLOYS | ANSFORMATIONS IN T | HE Ti-4 WT.% V |
| C5-P-THU-P2-5 | Dr. Alena Gornakova ² , Prof Boris Straumal ^{1,2,3,4} , Dr. Natal ¹ NITU MISIS, Chernogolovka, Russian Federation, ² Institute of Solid State ka, Russia, ³ Karlsruher Institut für Technologie (KIT), Institut für Nanotech ⁴ National University of Science and Technology «MISIS», Moscow, Russia | Physics, Russian Academy o | |
| | GRAIN BOUNDARY WETTING IN W-Ni ALLOYS | | |
| C5-P-THU-P2-6 | Dr. Andrey Mazilkin ^{2,3} , Prof Boris Straumal ^{1,2,3} , Dr. Svetla | na Protasova², Dr. Bri | gitte Baretzky³ |
| | ¹ NITU MISiS, Chernogolovka, Russian Federation, ² Institute of Solid State ka, Russia, ³ Karlsruher Institut für Technologie (KIT), Institut für Nanotech | | |
| | PSEUDOPARTIAL WETTING OF GRAIN BOUNDARIES | | |
| C5-P-THU-P2-7 | M.sc. Alexander Straumal ² , Dr. Andrey Mazilkin ^{2,3} , Dr. Brig 'NITU MISiS, Chernogolovka, Russian Federation, ² Institute of Solid State ka, Russia, ³ Karlsruher Institut für Technologie, Institut für Nanotechnolog | Physics, Russian Academy o | of Sciences, Chernogolov- |
| | EFFECT OF THE SOLDERING ATMOSPHERE ON THE WETTAB | ILITY OF A LEAD-FREE | SOLDER PASTE |
| C5-P-THU-P2-8 | Dr. Delfim Soares ¹ , Eng. Helena Leitão ² , Dr. José Teixeira Teixeira ¹ , Dr. Maria Cerqueira ¹ , Dr. Francisco Macedo ¹ , En | g Ricardo Alves ² | . Senhorinha |
| | ¹ Univ. Of Minho, Guimarães, Portugal, ² Bosch Car Multimedia, Braga, portu | | |
| C5-P-THU-P2-9 | NOVEL α-Si3N4 PLANAR SUPERHYDROPHOBIC NANOWIRE TAPE CASTING AND IN-SITU NITRIDATION OF SILICON | MEMBRANE THROUGH | |
| | Prof. Xin Xu ¹ , Mr. Lin Li ¹ , Dr. JunWei Wang ¹ , Prof. ChuShen | | |
| | ¹ University Of Science And Technology Of China, Hefei, China, ² University | · | nnina, Greece |
| | LIQUID BI PENETRATION INTO ULTRAFINE-GRAINED Cu POI | LYCRYSIAL | |
| C5-P-THU-P2-10 | Dr. Anna Kosinova², Prof. Eugen Rabkin², Dr. Askar Kilmar | | |
| | ¹ NITU MISiS, Chernogolovka, Russian Federation, ² Department of Materia tute of Technology, Haifa, Israel, ³ Karlsruhe Institute of Technology, Institu Germany, ⁴ Institute of Solid State Physics, Russian Academy of Sciences, ¹ C | ite of Nanotechnology, Egge | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P2 | Thursday September 21, 2017 |
| ΓZ | Symposium C.5: Interface Design and Modelling, Wetting and High-Temperature Capillarity |
| | CONTACT ANGLES OF WC/WC GRAIN BOUNDARIES WITH BINDER IN CEMENTED CARBIDES WITH VARIOUS CARBON CONTENT |
| C5-P-THU-P2-11 | Dr. Igor Konyashin ^{2,3} , Prof Boris Straumal ^{1,3,4,5} , Dr. Berndt Ries ² , Prof. Marat Bulatov ⁶ , Dr Brigitte Baretzky ⁵ |
| | 'NITU MISiS, Chernogolovka, Russian Federation, ² Element Six GmbH, Burghaun, Germany, ³ National University of Science and Technology «MISIS», Moscow, Russia, ⁴ Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia, ⁵ Karlsruher Institut für Technologie, Institut für Nanotechnologie, Eggenstein-Leopoldshafen, Germany, ⁶ Moscow Technological University (MIREA), Moscow, Russia |
| | WETTING PROPERTIES OF LASER TREATED SURFACES |
| C5-P-THU-P2-12 | Dr. Zoltan Weltsch ¹ |
| | ¹Pallasz Athéné University, Kecskemét, Hungary |
| | EFFECT OF ADDITIVES ON INTERGRANULAR PRESSURE SOLUTION OF CALCITE |
| C5-P-THU-P2-13 | <u>Dr Vladimir Traskine</u> ¹ , Professor Zoya Skvortsova ¹ , Dr Gennady Badun ¹ , Dr Mariya Chernysheva ¹ , Yaroslav Simonov ¹ |
| | ¹ Department of Chemistry, Lomonosov University, Moscow, Russian Federation |
| | WETTABILITY OF TRANSPARENT YAG (Y3AL5012) BY MOLTEN AGCUTI ALLOYS AND JOINING STUDY OF YAG/AgCuti/ti6Al4V SYSTEMS |
| C5-P-THU-P2-14 | Sofia Gambaro ¹ , Fabrizio Valenza ¹ , Gabriele Cacciamani ¹ , Maria Luigia Muolo ¹ , Alberto Passerone ¹ |
| | 'National Research Council – Institute of Condensed Matter Chemistry and Technologies for Energy (CNR-ICMATE), Genova, Italy |
| | WETTING OF VITREOUS CARBON BY Ag-Cu-In-Ti REACTIVE ALLOY |
| C5-P-THU-P2-15 | Ms. Meryem Tazi ^{1,2} , Mrs. Valérie CHAUMAT ¹ , M. Fiqiri HODAJ ² |
| | ¹ Univ. Grenovle Alpes, CEA, LITEN, DTBH , LCA, Grenoble, France, ² Univ. Grenoble Alpes , SIMAP , Grenoble, France |
| | WETTING AND SPREADING AT THE NANOSCALE |
| C5-P-THU-P2-16 | Dr Emily Brooke ¹ , Dr Anna Regoutz ¹ , Dr Catriona McGilvery ¹ , Prof Eduardo Saiz ¹ , Dr David Payne ¹ |
| | ¹ Department of Materials, Imperial College London, London, United Kingdom |
| | GRAPHITE FLAKES-Fe(/Co/Ni) PARTICLES/METAL COMPOSITES FOR POWER ELECTRONICS |
| C5-P-THU-P2-17 | E. Louis, Dr J.M. Molina 'Instituto Universitario de Materiales de Alicante, Universidad de Alicante, Ap. 99, E-03080, Alicante, Spain, 'Departamento de Química Inorgánica, Universidad de Alicante, Ap. 99, E-03080, Spain, 'Departamento de Física Aplicada, Universidad de Alicante, Ap. 99, E-03080, Alicante, Spain |
| C5-P-THU-P2-18 | PREPARATION, HEAT TREATMENT AND SURFACE PROPERTY ASSESSMENT OF AL-MATRIX COMPOSITES IN-SITU REINFORCED WITH Mg2Si and EX-SITU REINFORCED WITH TIC PARTICLES |
| | Angeliki Lekatou ¹ , Anthi Poulia ¹ , Alexander E. Karantzalis ¹ , Emmanouil Georgatis ¹ |
| | ¹ Applied Metallurgy Laboratory, Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
|---|---|--|
| P2 | Thursday September 21, 2017 | |
| Symposium C.8: Solidification, Casting, Foundry and Liquid Metal processing | | |
| C8-P-THU-P2-1 | INTEGRATED SYSTEM OF THERMAL / DIMENSIONAL ANALYSES FOR QUALITY CONTROL OF METALLIC MELT AND DUCTILE IRON CASTING SOLIDIFICATION | |
| | Phd Stelian Stan ¹ , PhD Mihai Chisamera ¹ , PhD Iulian Riposan ¹ , PhD Iulian Stan ¹ , PhD student Loredana Neacsu ¹ , PhD student Ana Maria Cojocaru ¹ 'Politehnica University Of Bucharest, Bucuresti, Romania | |
| C8-P-THU-P2-2 | MICROSTRUCTURAL AND CRYSTALLOGRAPHIC CHARACTERIZATION OF LEDEBURITE IN Fe-C-Si ALLOYS | |
| | Stefan Kante ¹ , Prof. Dr. rer. nat. habil. Andreas Leineweber ¹ 'Institute of Materials Science, TU Bergakademie Freiberg, Freiberg, Germany | |
| | EFFECT OF SR ADDITION ON MICROSTRUCTURE AND CORROSION BEHAVIOR OF A356 ALUMINUM ALLOYS | |
| C8-P-THU-P2-3 | Graduate Student İsmail Öztürk ¹ , Dr. Gökçe Hapçı Ağaoğlu ¹ , <u>Assoc. Prof. Derya Dışpınar</u> ¹ , Prof. Dr. Gökhan Orhan ¹ | |
| | 'Istanbul University, Istanbul, Türkiye | |
| | FEEDABILITY CHARACTERISTICS OF Sr-MODIFIED A356 ALLOY | |
| C8-P-THU-P2-4 | Gokhan Gorel ¹ , Ozen Gursoy ¹ , Dr Eray Erzi ¹ , <u>Assoc.Prof.Dr. Derya Dispinar</u> ¹ "Istanbul University | |
| | EFFECT OF TI AND SI ON THE MICROSTRUCTURAL CHANGES OF EUTECTIC AL-SI ALLOY | |
| C8-P-THU-P2-5 | Secil Demirkesen ¹ , Ozen Gursoy ¹ , Eray Erzi ¹ , Derya Dispinar ¹ **Istanbul University** | |
| | HEAT TREATMENT PARAMETERS FOR H12 CONDITION FOR Mg AND Sr ADDED AA1050 ALLOY | |
| C8-P-THU-P2-6 | Emrehan Dogan ¹ , Onur Kara ¹ , Ozen Gursoy ¹ , Eray Erzi ¹ , Sebahattin Kirtay ¹ , Derya Dispinar ¹ **Istanbul University, Turkey | |
| | MOULD FILLING ABILITY AND MECHANICAL PROPERTIES OF SIMA PRODUCED 7075 | |
| C8-P-THU-P2-7 | Eray Erzi ¹ , Caglar Yuksel ² , Ozen Gursoy ¹ , Sebahattin Kirtay ¹ , Derya Dispinar ¹ ¹ Istanbul University, ² Yildiz Technical University | |
| | THREE DIMENSIONAL CHARACTERIZATION OF STRUCTURAL DEFECTS OF MULTILAYER CERAMIC SHELL MOULDS BY X-RAY COMPUTED TOMOGRAPHY METHOD | |
| C8-P-THU-P2-8 | Msc. Eng. Adam Tchorz ¹ , Msc. Eng. Izabela Krzak ¹ , Prof. Marzanna Ksiazek ¹ , Msc. Eng. Lukasz Boron ¹ 'Foundry Research Institute, Cracow, Poland | |
| | EFFECT OF Zn ON SOLID/LIQUID INTERFACE ENERGY OF B-Sn | |
| C8-P-THU-P2-9 | Mr Masaru Nagaoka¹, Dr Hisao Esaka¹, Dr Kei Shinozuka¹¹¹National Defense Academy of Japan, Yokosuka, Japan | |
| | MELT QUALITY CHANGE WITH DIFFERENT FLUXES IN SECONDARY A356 ALLOY | |
| C8-P-THU-P2-10 | Caglar Yuksel ¹ , Ozge Tamer ¹ , Eray Erzi ² , Ugur Aybarc ³ , Emre Cubuklusu ³ , Ozgur Topcuoglu ³ , Mustafa Cigdem ¹ , Derya Dispinar ² 1Yildiz Technical University, ² Istanbul University, ³ CMS Wheels | |
| | MELT QUALITY AND MECHANICAL PROPERTY CHANGE IN MIXED RATIOS OF SCRAP AND PRIMARY A356 | |
| C8-P-THU-P2-11 | Ozge Tamer¹, Caqlar Yuksel ¹, Eray Erzi², Ugur Aybarc³, Emre Cubuklusu³, Ozgur Topcuoglu³, Mustafa Cigdem¹, Derya Dispinar² ¹Yildiz Technical University, ²Istanbul University, ³CMS Wheels | |
| | POROSITY FORMATION BY Sr, Ti AND B ADDITION TO A413 ALUMINUM ALLOY | |
| C8-P-THU-P2-12 | Muhammet Uludag ¹ , Derya Dispinar ² 'Bursa Technical University, ^{1,2} Istanbul University | |
| C8-P-THU-P2-13 | CHARACTERISATION OF HOT TEARING SUSCEPTIBILITY OF A380 | |
| | Muhammet Uludaq¹, Remzi Cetin², Murat Tiryakioglu³, Derya Dispinar⁴ | |
| | Bursa Technical University, ² Halic University, , ³ University of North Florida, ⁴ Istanbul University | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 | |
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| P2 Thursday September 21, 2017 Symposium C.8: Solidification, Casting, Foundry and Liquid Metal processing | | |
| | | |
| Muhammet Uludag ¹ , Remzi Cetin ² , Murat Tiryakioglu ³ , Derya Dispinar ⁴ Bursa Technical University, ² Halic University, ³ University of North Florida, ⁴ Istanbul University, Turkey | | |
| | HOT TEARING OF Sr-B MODIFIED A356 | |
| C8-P-THU-P2-15 | Muhammet Uludag ¹ , Remzi Cetin ² , Derya Dispinar ³ ¹Bursa Technical University, ²Halic University, ³Istanbul University, Turkey | |
| | MICROSTRUCTURAL CHANGES OF HYPEREUTECTIC AL-Si ALLOY BY Sr | |
| C8-P-THU-P2-16 | Muhammet Uludag ¹ , <u>Lokman Gemi</u> ² , Derya Dispinar ³ ¹ Bursa Technical University, ² Necmettin Erbakan University, ³ Istanbul University | |
| | COMPARISON OF MELT CLEANING WITH AND WITHOUT FLUXES IN 206 ALUMINIUM ALLOY | |
| C8-P-THU-P2-17 | Murat Colak ¹ , Derya Dispinar ² | |
| | Bayburt University, ² Istanbul University, Turkey | |
| | SOLIDIFICATION KINETICS OF CuZr ALLOY: GROUND-BASED AND MICROGRAVITATIONAL EXPERIMENTS | |
| C8-P-THU-P2-18 | Dr. Peter Galenko², R Hanke², Ph Paul², S Koch, M Rettenmayr², R Kobold⁴, M Kolbe⁴, J Gegner⁴, D Holland-Moritz⁴, D Herlach⁴, W Dreier⁵, Dr. Evgeny Kharanzhevskiy¹ ¹Udmurt State University, Izhevsk, Russian Federation, ²Friedrich-Schiller-Universität Jena, Physikalisch-Astronomische Fakultät, D-07743 Jena, Germany, ³Ural Federal University, Laboratory of Multi-Scale Mathematical Modeling, 620002 Ekater- inburg, Russia, ⁴Deutsches Zentrum für Luft- und Raumfahrt, Institut für Materialphysik im Weltraum, D51170 Köln, Germany, ⁵Ruhr-Universitä, Physikalisch-Astronomische Fakultät, D-44810 Bochum, Germany | |
| | PHASE SEGREGATION DISCUSSION IN A HFZrtinbv High Entropy Alloy: The paradox of the high melting point element | |
| C8-P-THU-P2-19 | Dipl. Eng Anthoula Poulia¹, Dipl. Eng. Emmanuel Georgatis¹, Dipl. Eng. Christina Mathiou¹, Dr. Alexander Karantzalis¹ | |
| | **University Of Ioannina, Ioannina, Greece SOLIDIFICATION SEQUENCE AND SALINE CORROSION PERFORMANCE OF CAST ALUMINIUM | |
| C8-P-THU-P2-20 | MATRIX COMPOSITES REINFORCED WITH SUBMICRON TUNGSTEN CARBIDE PARTICLES | |
| | Prof. Angeliki Lekatou ¹ , Prof. Alexandros Karantzalis ¹ , Mr. Nicolaos Gkikas ¹ , Ms. Vasiliki Gousia ¹ 'University Of Ioannina, Ioannina, Greece | |
| CO D THU DO 21 | ULTRASONIC MELT TREATMENT OF LIGHT ALLOYS - AN INNOVATIVE APPROACH WITHOUT ENVIRONMENTAL IMPACT | |
| C8-P-THU-P2-21 | Joaquim Barbosa ¹ , Helder Puga ¹ ¹ CMEMS - Center for Microelectromechanical Systems - Universidade Do Minho, Guimarães, Portugal | |
| | THE ROLE OF MELT STIRRING AND MN-RICH INTERMETALLIC PHASES | |
| C8-P-THU-P2-22 | IN THE FORMATION OF THE PRIMARY AL-PHASE IN AISI ALLOYS Dr Piotr Mikolajczak¹, Professor Lorenz Ratke² | |
| | Poznan University of Technology, Institute of Materials Technology, Poznan, Poland, 2 German Aerospace Center DLR, Institut für Werkstoff-Forschung, Cologne, Germany | |
| | UNIVARIANT EUTECTIC SOLIDIFICATION: DIRECTIONAL GROWTH OF AI2Cu AND Ag2AI PHASES IN THE TERNARY AI-Ag-Cu SYSTEM | |
| C8-P-THU-P2-23 | Kemal Babayev ¹ , Research Assistant Professor Melis Serefoglu Kaya ¹ 'Koc University, İstanbul, Turkey | |
| | EFFECT OF HEAT TREATMENT ON MECHANICAL PROPERTIES IN AL-12 SI ALLOY WITH VARIOUS Mg COMPOSITION RATIO | |
| C8-P-THU-P2-24 | Dr. Muhammet Uludag¹, <u>Dr. Mustafa Kocabaş</u> , Dr. Şakir Yazman, Prof. Dr. Derya Dişpinar ¹Bursa Technical University, Bursa, Turkey | |
| | THE CORRELATION BETWEEN CASTING QUALITY AND WEAR BEHAVIOR IN AL-12 SI ALLOY WITH VARIOUS MG COMPOSITION | |
| C8-P-THU-P2-25 | Dr. Muhammet Uludag¹, <u>Mr. Muhammed Abdullah YILDIZ</u> , Dr. Mustafa KOCABAŞ, Prof. Dr. Derya DIŞPINAR | |
| | ¹ Bursa Technical University, Turkey | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P2 | Thursday September 21, 2017 |
| 12 | Symposium C.9: Manufacturing Processes |
| C9-P-THU-P2-1 | STUDY ON SOLID STATE WELDING AND SUPERPLASTIC FORMING FOR AEROSPACE PRESSURE VESSEL |
| | Professor Ho-sung Lee ¹ ¹Korea Aerospace Research Institute, Daejeon, South Korea |
| | DESIGN OF EXPERIMENTS FOR THE OPTIMIZATION OF CUTTING FORCE AND SURFACE ROUGHNESS OF LEAD-FREE BRASS ALLOYS |
| C9-P-THU-P2-2 | Mr Anagnostis Toulfatzis ^{1,3} , Dr George Pantazopoulos ¹ , Professor Constantine David ² , Dr Dimitrios Sagris ² , Professor Alkiviadis Paipetis ³ |
| | ¹ ELKEME S.A - Hellenic Research Centre for Metals S.A, 56th km Athens – Lamia National Road, 32011 Oinofyta Viotias, Greece, ² Department of Mechanical Engineering, Technological Educational Institute of Central Macedonia, 62124 Serres, Greece, ³ Department of Materials Science and Engineering, University of Ioannina, 45110 Ioannina, Greece |
| | INFLUENCE OF SUBSTRATE GRANULATION ON SHS SYNTHESIS OF THE BINARY COMPOUNDS IN THE TI-AL AND Fe-AL SYSTEM |
| C9-P-THU-P2-3 | M.Sc. Katarzyna Chabior ¹ , Professor Jerzy Lis ¹ , D.Sc. Leszek Chlubny ¹ , M.Sc. Paulina Borowiak ¹ , M.Sc Karolina Kozak ¹ |
| | 'AGH University of Science and Technology, Krakow, Poland |
| | STATIC AND DYNAMIC MECHANICAL PROPERTIES OF FLUOROCARON POLYMER: MULTI-SCALE INVESTIGATION |
| C9-P-THU-P2-4 | <u>Dr Ahmed Mdarhri</u> 1, A Nourdine ^{2,3} , A Montagne ⁴ , Ilham EL ABOUDI ¹ , A Iost ⁴ |
| CY-P-1HU-PZ-4 | ¹ Laboratoire de la Matière Condensée et des Nanostructures (LMCN), FSTG Université Cadi Ayyad Av. A. Khattabi, B.P. 549, 40 000 Marrakech, Maroc , Marrakech, Morocco, ² LEPMI, University of Savoie Mont Blanc, Chambéry F-73000, France , Chambéry, France, ³ LEPMI, CNRS, Grenoble F-38000, France , Grenoble, France, ⁴ Arts & Metiers ParisTech; Mechanics, Surfaces and Materials Processing (MSMP), 8 BD Louis XIV, 59046 Lille, France, Lille, France |
| C9-P-THU-P2-5 | THE STUDY OF RELATIONSHIPS BETWEEN THE CHARACTERISTICS OF BINDER SYSTEM AND INJECTION MOLDING BEHAVIOR IN THE FABRICATION PROCESS OF HIGH ASPECT RATIO MICRO PATTERN STRUCTURE |
| | Dr. Yongdae Kim ¹ , Dr. Wonsik Lee ¹ , Mr. Jin-Man Jang ¹ ¹ Korea Institute Of Industrial Technology, 156, Getpearl-ro, Yeonsu-Gu, Korea |
| | FABRICATION OF MICRO MOLD FOR POWDER INJECTION MOLDING BY ELECTROFORMING OF Fe-Ni ALLOYS |
| C9-P-THU-P2-6 | Sung Cheol Park ¹ , Dr. Seong Ho Son ¹ , Dr. Ho-Nyun Lee ¹ , Jin Yeon Lee ¹ , Dr. Wonsik Lee ¹ , Dr. Yong-Dae Kim ¹ |
| | ¹Korea Institute Of Industrial Technology, South Korea |
| | MODEL-BASED ONLINE TOOL MONITORING FOR HOBBING PROCESSES |
| C9-P-THU-P2-7 | Prof. Dr. Ing. Dr. Ing. e.h. Dr. hc Dr. hc Fritz Klocke ¹ , Dr. Ing. Benjamin Döbbeler ¹ , Sven Goetz ¹ *WZL der RWTH Aachen University, Aachen, Germany |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|-----------------|---|
| P2 | Thursday September 21, 2017 |
| | Symposium C.9: Manufacturing Processes |
| | THE EFFECT OF POROSITY ON THE MILLING OF POROUS ALUMINUM |
| 00 D THU DO C | <u>DrEng. Nikolaos Michailidis</u> ¹, Mr. Spyridon Kombogiannis², Mr. Paschalis Charalampous², DrEng. Georgios Maliaris³, DrEng. Fani Stergioudi¹ |
| C9-P-THU-P2-8 | ¹ Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ² Laboratory for Machine Tools and Manufacturing Engineering, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ³ Mechatronics & Electromechanical Systems Automation Laboratory, Dept. of Electrical and Computer Engineering, Polytechnics school, Democritus University of Thrace, Xanthi, Greece |
| | MICROSTRUCTURAL CHANGES OCCURRING IN SHAPE MEMORY ALLOYS AFTER VARIOUS MANUFACTURING PROCESSES |
| C9-P-THU-P2-9 | DrEng. Nikolaos Michailidis ^{1,2} , DrEng. Fani Stergioudi ^{1,2} , Mr. Marios Pantazopoulos ^{1,2} , DrEng. Konstantinos-Dionysios Bouzakis³, DrEng. Georgios Skordaris³, Mr. Paschalis Charalampous³, Dr. Theocharis Baxevanis⁴, PhD Dimitrios Lagoudas⁵,² |
| 5,1 1110 12-7 | ¹Physical metallurgy Laboratory, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ²Center for Research & Development of Advanced Materials, KEDEK - AUTh Balkan Center, Thessaloniki, Greece, ³Laboratory for Machine Tools and Manufacturing Engineering, Dept. of Mechanical Engineering, School of Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, ⁴University of Houston, Houston, USA, ⁵Texas Institute for Intelligent Materials and Structures (TiiMS), Texas A&M University, College Station, USA |
| 00 D TIII 22 44 | CURE MONITORING IN FULLY OR PARTIALLY CLOSED TOOLS USING RESONANT ULTRASONIC SPECTROSCOPY |
| C9-P-THU-P2-10 | Christian Pommer¹ ¹Tu-braunschweig, Braunschweig, Germany |
| C9-P-THU-P2-11 | SINGLE POINT INCREMENTAL FORMING OF COPPER |
| | Mr Kishore Jawale ¹ , Dr José F Duarte ¹ , Dr Ana Reis ¹ , Dr M Beatriz Silva ² 'Inegi, Porto, Portugal, ² IDMEC, IST, Lisbon, Portugal |

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| | TIME: 13:00-15:00 R00M: F0YER, E1/M1 | |
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| D) | Thursday September 21, 2017 | |
| Symposium C.10: Thermomechanical Processing, Severe Plastic Deformation and Nano-structuring | | |
| | Fe-B-INTERSTITIAL ALLOYS, WITH CONTROLLED MICROSTRUCTURE: A DREAM OR A REALITY | |
| C10-P-THU-P2-1 | <u>Doctor Catherine Cordier</u> ¹ , Professor Jacques Foct ¹ ¹ Univ. Lille, CNRS, INRA, ENSCL, UMR 8207, UMET, Unité Matériaux Et Transformations, Lille, France | |
| C10 D TIII 50 | CARBON NANOTUBES AS ENHANCERS OF THE MICROSTRUCTURE STABILITY IN METAL MATRIX COMPOSITES: A STUDY OF THE STRUCTURAL DEFECTS AFTER SEVERE PLASTIC DEFORMATION | |
| C10-P-THU-P2-2 | Dipl. Ing. Katherine Aristizabal ¹ , Dr. Ing. Sebastian Suarez ¹ Dept. Materials Science and Engineering, Saarland University, Saarbruecken, Germany | |
| | SEVERE PLASTIC DEFORMATION INDUCED DYNAMIC PRECIPITATION IN Cu-Cr-Zr ALLOY | |
| C10-P-THU-P2-3 | PhD Student Harun Yanar ¹ , Prof.Dr. Gencaga Purcek ^{1,2} , PhD Student Muhammet Demirtas ³ , Dr. D.V. Shangina ^{4,5} , Prof. Dr. S.V. Dobatkin ^{4,5} ¹ Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey, Trabzon, Turkey, *Engineering Faculty, Giresun University, Giresun, Turkey, *Department of Mechanical Engineering, Bayburt University, Bayburt, Turkey, Bayburt, Turkey, *Ba | |
| | Turkey, ⁴ A.A.Baikov Ínstitute of Metallurgy and Materials Science of RÅS, Moscow, Russia, Moscow, Russia, ⁵ National University of Science and Technology "MISIS", Laboratory of Hybrid Nanostructured Materials, Russia, Moscow, Russia | |
| C10 D TIII D2 (| ANNEALING BEHAVIOR OF A 316L AUSTENITIC STAINLESS STEEL PROCESSED BY LARGE STRAIN WARM ROLLING | |
| C10-P-THU-P2-4 | Miss Marina Odnobokova ¹ , Andrey Belyakov ¹ , Rustam Kaibyshev ¹ 'Belgorod State University, Belgorod, Russian Federation | |
| | MICROSTRUCTURE AND DUCTILITY OF UFG BINARY AL-Zn ALUMINUM ALLOY | |
| C10-P-THU-P2-5 | Elena Bobruk¹ ¹Ufa State Aviation Technical University, Ufa, Russian Federation | |
| | RELATIONSHIP BETWEEN SUPERPLASTICITY AND DAMPING CAPACITY IN NATURALLY AGED Zn-AL ALLOYS | |
| C10-P-THU-P2-6 | MS Muhammet Demirtas ¹ , PhD Kadri C. Atli ² , MS Harun Yanar ³ , PhD Gencaga Purcek ^{3,4} | |
| | ¹ Bayburt University, Bayburt, Turkey, ² Anadolu University, Eskişehir, Turkey, ³ Karadeniz Technical University, Trabzon, Turkey, ⁴ Engineering Faculty, Giresun University , Giresun, Türkey | |
| | INFLUENCE OF STRAIN RATE AND STRAIN PATH ON THE MECHANICAL BEHAVIOR OF AA 6061–T6 ALLOY | |
| C10-P-THU-P2-7 | Bermane Beucia ¹ , Jérôme Mespoulet ³ , Hervé Couque ² , Thierry Chauveau ¹ , Azziz Hocini ¹ , Damien Faurie ¹ , Zofia Trzaska ¹ , Pierre Hereil ³ , David Tingaud ¹ , Dominique Vrel ¹ , Patrick Langlois ¹ , Guy Dirras ¹ | |
| | ¹ Université Paris 13, Sorbonne Paris-Cité, LSPM-CNRS, Villetaneuse, France, ² Nexter Munition, Bourges, France, ³ Thiot Ingenierie, Puybrun, France | |
| 010 D 7111 F3 | MICROSTRUCTURE, MECHANICAL AND PERFORMANCE PROPERTIES OF AN ALALLOY 6101 AFTER ECAP-CONFORM AND COLD DRAWING | |
| C10-P-THU-P2-8 | Maxim Murashkin ¹ | |
| | ¹ Ufa State Aviation Technical University, Ufa, Russian Federation | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P2 | Thursday September 21, 2017 |
| rz | Symposium C.10: Thermomechanical Processing, Severe Plastic Deformation and Nano-structuring |
| | MECHANICAL PROPERTIES OF LIGHT ALLOYS AT HIGH TEMPERATURES |
| C10-P-THU-P2-9 | Mr. Salar Salahi¹, Mr. Kambiz Shojaei¹, Prof. G. Guven Yapici¹ ¹Ozyegin University, Istanbul, Turkey |
| 040 D TIIII D0 40 | ULTRAFINE GRAINED MICROSTRUCTURE IN THE Ti-5.7Al-3.8Mo-1.2Zr-1.3Sn ALLOY PROCESSED BY EQUAL-CHANNEL ANGULAR PRESSING |
| C10-P-THU-P2-10 | G.S. Dyakonov ¹ , I. P. Semenova ¹ , Y. F. Grishina ¹ , G. I. Raab ¹ ¹ Institute of Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa, Russian Federation |
| C10-P-THU-P2-11 | THE EFFECT OF Nb ON THE MICROTEXTURE AND MICROSTRUCTURE OF A NOVEL AS-ROLLED WEAR RESISTANT SLURRY PIPELINE STEEL |
| C10-P-1H0-P2-11 | Ph.d Student Vahid Javaheri ¹ , Professor David Porter ¹ **University Of Oulu, Oulu, Finland** |
| | LOCALIZATION OF DEFORMATION UNDER SHOCK WAVE IMPACT |
| C10-P-THU-P2-12 | Doctor of physics and mathematical science Sergey Plotnikov ¹ , Doctor of physics and mathematical science Vladimir Oleshko ² , Amanzhol Turlybekuly ¹ |
| | ¹ D. Serikbayev East Kazakhstan State Technical University, Ust-kamenogorsk, Kazakhstan, ² Tomsk Polytechnic University, Tomsk, Russia |
| C10-P-THU-P2-13 | INFLUENCE OF THE UFG STRUCTURE OF THE Mg-Zn-Ca ALLOY ON ITS MECHANICAL AND CORROSION PROPERTIES |
| | Olga Kulyasova ^{1,2} , A.P. Tarasova ¹ , R.K. Islamgaliev ¹ |
| | ¹ Institute of Physics of Advanced Materials, Ufa State Aviation Technical University, Ufa, Russian Federation, ² Saint Petersburg State University, Peterhof, Saint Petersburg, Russian Federation |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P2 | Thursday September 21, 2017 |
| | Symposium C.11: Processes and Materials for Nanoelectronics |
| | DEMONSTRATION OF ULTRA-LOW POWER MULTILEVEL SWITCHING WITH ENHANCED UNIFORMITY IN FORMING FREE TiO2-X-BASED RRAM WITH EMBEDDED PT NANOCRYSTALS |
| C11-P-THU-P2-1 | Dr. Menelaos Tsigkourakos ¹ , Phd Student Panagiotis Bousoulas ¹ , Phd Student Vaggelis Aslanidis ¹ , Phd Student Patrick Asenov ¹ , Professor Dimitris Tsoukalas ¹ |
| | ¹ Department Of Applied Physics, National Technical University Of Athens , Heroon Polytechniou 9, Greece |
| | TERBIUM BASED METAL ORGANIC NETWORK FOR SOLUTION PROCESSED OLEDS |
| C11-P-THU-P2-2 | Prof. Carmen Coya ¹ , Prof. Angel Luis Álvarez ¹ , Prof. Mª Ángeles Monge ² , Prof. Enrique Gutiérrez-Puebla ² , Prof. Alicia de Andrés ² |
| | ¹ Escuela Técnica Superior de Ingeniería de Telecomunicación (ETSIT), Universidad Rey Juan Carlos, Móstoles, Spain, ² Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas (CSIC), Cantoblanco, Spain |
| | COMPACT MODELING OF NANOSCALE TRIPLE-GATE JUNCTIONLESS TRANSISTORS COVERING DRIFT-DIFFUSION TO QUASI-BALLISTIC CARRIER TRANSPORT |
| C11-P-THU-P2-3 | Mr. Theodoros Oproglidis ¹ , Ms. Theano Karatsori ¹ , Dr. Sylvaine Barraud ³ , Prof. Gerard Ghibaudo ² , Prof. Charalabos Dimitriadis ¹ |
| | ¹ Aristotle University Of Thessaloniki, Thessaloniki, Greece, ² IMEP-LAHC Laboratory in Minatec, Grenoble, France, ³ LETI-CEA, Grenoble, France |
| | OPTIMIZATION OF THE CATALYTIC SYSTEM TOWARDS WELL-DEFINED DONOR-ACCEPTOR SEMICONDUCTING POLYMERS |
| C11-P-THU-P2-4 | Michael Spanos ^{1,2} |
| | ¹ Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece, ² Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece, ³ Advent Technologies S.A, Patras, Greece |
| C11-P-THU-P2-5 | CIRCUIT DESIGN AT SUB-20NM FINFET TECHNOLOGY: MATERIALS AND DESIGN TECHNIQUES EFFECTS |
| | Mr Dimitrios Balobas ¹ , Dr Nikos Konofaos ¹ |
| | ¹Aristotle University Of Thessaloniki, Thessaloniki, Greece |
| C11-P-THU-P2-6 | ELECTRICAL PERFORMANCE OF ATOMIC LAYER DEPOSITED ALUMINA FILMS USING DIFFERENT OXIDANTS |
| | Dr Nikolaos Nikolaou¹, Dr Panagiotis Dimitrakis¹, Dr Pascal Normand¹, Aggelos Zeniou¹, Dr Kaupo Kukli².³, Professor Mikko Ritala², Professor Markku Leskelä2, Dr Vassilios Ioannou-Sougleridis ¹ |
| | ¹ Institute of Nanoscience and Nanotechnology, NCSR 'Demokritos', 153 10 Aghia Paraskevi, Greece, ² Department of Chemistry, University of Helsinki, FI-00014 Helsinki, Finland, ³ Institute of Physics, University of Tartu, Ravila 14c, EE-50411 Tartu, Estonia |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|------------------|--|
| P2 | Thursday September 21, 2017 |
| 12 | Symposium C.11: Processes and Materials for Nanoelectronics |
| C11-P-THU-P2-7 | INVESTIGATION OF INSTABILITIES IN OXIDE-NITRIDE-ALUMINA MEMORY CAPACITORS |
| | Dr Nikolaos Nikolaou¹, Dr Panagiotis Dimitrakis¹, Dr Pascal Normand¹, Dr Konstantinos Gianna- kopoulos¹, Dr Mario Barozzi², Dr Giancarlo Pepponi², Dr Kaupo Kukli³,⁴, Professor Mikko Ritala³, Professor Markku Leskelä³, Dr Vassilios Ioannou-Sougleridis ¹ |
| | ¹ Institute of Nanoscience and Nanotechnology, NCSR 'Demokritos', 153 10 Aghia Paraskevi, Greece, ² Fondazione Bruno Kessler, CMM, MNF, MateC, Trento, Italy, ³ Department of Chemistry, University of Helsinki, FI-00014 Helsinki, Finland, ⁴ Institute of Physics, University of Tartu, Ravila 14c, EE-50411 Tartu, Estonia |
| C11-P-THU-P2-8 | A 3-DIMENSIONAL SIMULATOR OF A TENSILE STRESS SENSOR BASED ON TUNNELING BETWEEN CNTS |
| CII-F-INU-FZ-0 | Prof John Xanthakis ¹ , <u>Mr Menelaos Tsagarakis</u> ¹ ¹ National Technical University of Athens, Athens, Greece |
| 011 D TIIII D0 0 | ON THE APPLICABILITY OF THE NATORI FORMULA TO REALISTIC MULTI-LAYER QUANTUM WELL III-V FETS |
| C11-P-THU-P2-9 | <u>Dr Argyro Gilti</u> ¹ , Professor John Xanthakis ¹ 'National Technical University Of Athens, Athens, Greece |
| | OPTICAL PROPERTIES OF PEROXY BRIDGES FROM FIRST PRINCIPLES: SITE-TO-SITE DISORDER EFFECTS |
| C11-P-THU-P2-10 | Blaz Winkler ^{1,2} , Layla Martin-Samos ^{1,4} , Nicolas Richard ³ , Luigi Giacomazzi ⁴ , Antonino Alessi ² , Sylvain Girard ² , Aziz Boukenter ² , Youcef Ouerdane ² , Matjaz Valant ¹ 1 University Of Nova Gorica, Materials Research Laboratory, Ajdovscina, Slovenia, ² University Jean Monet, Laboratorie Hubert |
| | Curien, Saint-Etienne, France, ³ CEA, DAM, DIF, Arpajon, France, ⁴ CNR-IOM/Democritos National Simulation Center, Trieste, Italy |
| C11-P-THU-P2-11 | STRUCTURAL, MORPHOLOGICAL AND ELECTRICAL CHARACTERIZATION OF HOT-WIRE DEPOSITED METAL OXIDES |
| | <u>Dr Giorgos Papadimitropoulos</u> ¹, Dr Dimitrios Kouvatsos¹, Dr Dimitrios Davazoglou¹ ¹NCSR Demokritos, Athens, Greece |
| C11-P-THU-P2-12 | THE INFLUENCE OF EMBEDDED HAFNIUM NANOPARTICLES ON THE RESISTIVE SWITCHING BEHAVIOR OF METAL OXIDE THIN FILMS |
| C11-F-180-F2-12 | Irini Michelakaki¹, Panagiotis Bousoulas¹, Nikos Boukos², <u>Dimitris Tsoukalas</u> ¹NTUA, Zographou, Greece, ²NCSR Demokritos, Aghia Paraskvi, Greece |
| | INELASTIC NEUTRON SCATTERING AND INFRARED SPECTROSCOPIC STUDY OF THE ORTHORHOMBIC-TETRAGONAL PHASE TRANSITION IN CH3HN3Pbi3 |
| C11-P-THU-P2-13 | Götz Schuck ¹ , Daniel M. Többens ¹ , Monika Koch-Müller ² , Ilias Efthymiopoulos ² , Susan Schorr ¹ ¹ Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, 14109 Berlin, Germany, ² Helmholtz-Zentrum Potsdam, Deutsches GeoForschungsZentrum - GFZ, Telegrafenberg, 14473 Potsdam, Germany |
| | CHALLENGES IN PREPARATION OF MICROWAVE TUNABLE DEVICES WITH DOPED BaTi03 THIN FILMS |
| C11-P-THU-P2-14 | Jelena Vukmirovic¹, Branimir Bajac¹, Andrea Nesterovic¹, Georges Dubourg², Jovana Stanojev², Sanja Kojic³, Goran Stojanovic³, Vladimir Srdic¹ ¹Faculty Of Technology Novi Sad, Novi Sad, Serbia, ²BioSense Institute, Novi Sad, Serbia, ³Faculty Of Technical Sciences, Novi Sad, Serbia |
| | GROWTH AND PROPERTIES OF GESISN STRAINED LAYERS ON Si(100) |
| C11-P-THU-P2-15 | <u>Dr. Alexandr Nikiforov</u> ^{1,2} , Dr. Vaycheslav Timofeev ¹ , Artur Tuktamyshev ¹ , Michail Loshkarev ¹ , Dr. Serge Teys ¹ , Prof. Oleg Pchelyakov ^{1,2} **Rhanov Institute Of Semiconductor Physics SB RAS, Novosibirsk, Russian Federation, |
| | ² National Research Tomsk State University, Tomsk, Russian Federation |
| 011 D TIII D0 44 | IMPEDIMETRIC NANOWIRE-APTASENSOR, FOR SELECTIVE PESTICIDE DETECTION E. Skotadis¹, L. Madianos¹, G. Tsekenis², L. Patsiouras¹, D. Tsoukalas¹ |
| C11-P-THU-P2-16 | Department of Applied Physics, National Technical University of Athens, Athens, Greece, Biomedical Research Foundation of the Academy of Athens, Athens, Greece |
| | THE SURFACE OF SILICON NANOWIRES AND ITS ROLE IN THE DEACTIVATION OF DOPANTS |
| C11-P-THU-P2-17 | Dr. Stefano Paleari¹, <u>Dr. Matteo Belli</u> 2, Prof.Marco Fanciulli¹.² ¹Universita¹ Di Milano - Bicocca, Milan, Italy, ²CNR-IMM MDM Laboratory, Agrate Brianza, Italy |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
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| P2 | Thursday September 21 | , 2017 | |
| | Symposium D.3: Materials at extreme condit compression combined or not with low or | | |
| | DIELECTRIC MATERIAL MEASUREMENT OF HYPERSONIC ELE WINDOWS FOR HIGH TEMPERATURE | CTROMAGNETIC | |
| D3-P-THU-P2-1 | Yinfang Xu ¹ , Junwu Zhang ¹ ¹ Beijing Institute Of Space Long March Vehicle, Fengtai, China | | |
| | HIGH PRESSURE RESPONSE AND HYDROSTATICITY OF THE FINANCIAL STUDIED BY RAMAN SPECTROSCOPY | C70 FLUORINERTTM | |
| D3-P-THU-P2-2 | Mr Stavros Misopoulos ¹ , Ms Aspasia Zerfiridou ^{1,2} , Mr Kyria Mr Dimitris Christofilos ³ , Mr Sotirios Ves ¹ , Mr Gerasimos A. 1 Physics Department, Aristotle University Of Thessaloniki, Thessaloniki, Greece, 3 Chemical Engineering Department, Aristotle | . Kourouklis³, Mr Joh eece, ²Food Technology De | epartment, ATEI of Thes- |
| | COMPARATIVE HIGH PRESSURE RAMAN STUDY OF THE MIXE Sm2.75C60 AND Eu2.75C60 FULLERIDES | D VALENCE | |
| D3-P-THU-P2-3 | Dr. S.M. Souliou ^{1,2} , Dr. J. Arvanitidis ³ , Dr. D. Christofilos ⁴ , Prof. G.A. Kourouklis ⁴ , Prof. K. Prassides ⁶ , Prof. Y. Iwasa ⁷ , F ¹ European Synchrotron Radiation Facility, BP 220, F-38043 Grenoble Cedex schung, Max-Planck Institut für Festkörperforschung, 70569 Stuttgart, Gerr of Thessaloniki, 54124 Thessaloniki, Greece, ⁴ Chemical Engineering Depart Thessaloniki, Greece, ⁵ Physics Department, University of Patras, 26504 Patr Research, Tohoku University, 2-1-1 Katahira, Sendai 980-8577, Japan, ⁷ Dep 113-8656 Tokyo, Japan | k, France, ² Max-Planck Inst many, ³ Physics Departmen tment, Aristotle University tras, Greece, ⁶ WPI-Advance | itut für Festkörperfor- t, Aristotle University of Thessaloniki, 54124 ed Institute for Materials |
| | HIGH PRESSURE RAMAN STUDY OF ARAMIDE FIBRES | | |
| D3-P-THU-P2-4 | Miss Niki Sorogka ¹ , Mr Fannis Sebros ¹ , Mr John Arvanitidi Ves ¹ , Mr John Parthenios ³ , Mr George Anagnostopoulos ³ , M Papagelis ⁵ ¹ Physics Department, Aristotle University of Thessaloniki, 54124 Thessalonik Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ³ Institute of Greece, ⁴ Chemical Engineering Department, University of Patras, 26504 Patra, University of Patras, 26504 Patras, Greece | ii, Greece, ² Chemical Engino Chemical Engineering, FOF | eering Department, RTH/ICE-HT, 26500 Patras, |
| | HIGH PRESSURE RAMAN STUDY OF Dy3Ga5012 | | |
| D3-P-THU-P2-5 | Mr Michail Margas ¹ , Mr John Arvanitidis ¹ , Mr Dimitrios Chi Mr Hideo Kimura ⁴ , Mr Gerasimos Kourouklis ² , Mr Sotirios V ¹ Physics Department, Aristotle University of Thessaloniki, 54124 Thessalon Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ³ Physics D Greece, ⁴ National Institute for Materials Science, Sengen 1-2-1, Tsukuba, Ib | les ¹ niki, , Greece, ² Chemical En Department, University of F | ngineering Department, |
| | STRAIN ENGINEERING IN FEW LAYER MOLYBDENUM DISULF | IDE TWO DIMENSION | AL CRYSTALS |
| D3-P-THU-P2-6 | Dr Dimitris Anestopoulos ¹ , Dr Spiros Grammatikopoulos ¹ , Dr Marino Arroyo ⁴ , Prof Kostas Papagelis ^{1,2} , Prof Costas Ga 'FORTH/ICE-HT, Patras, Greece, ² Dept. of Physics, Patras, Greece, ³ Dept. of 'Universitat Politecnica de Catalunya (UPC), Barchelona, Spain | aliotis ^{1,3} , <u>Dr John Par</u> | rthenios 1 |
| | DC AND AC ELECTRICAL PROPERTIES OF GLASSES FROM TH | E SYSTEM Cu-Ag-Ge | -As-Se |
| D3-P-THU-P2-7 | Ms. Vasilisa Zaikova ¹ , Ms. Nina Melnikova ¹ ¹ Ural Federal University, Institute of Natural Science and Mathematics, Ekat | terinburg, Russian Federat | ion |
| | PRESSURE INDUCED STRUCTURAL STUDY OF Sb2S3 | | |
| D3-P-THU-P2-8 | <u>Utpal Dutta</u> ¹ , S Pallavi S Malavi ² , Subodha Sahoo ¹ , S Karma Bhabha Atomic Research Center, MUMBAI, India, ² Department of Physics, VDr., St. Louis, MO 63130 | | 3. 1105, One Brookings |
| | INFLUENCE OF EXTREME DEFORMATION ON THE EVOLUTION AND MECHANICAL PROPERTIES | OF MICROSTRUCTUR | RE |
| D3-P-THU-P2-9 | Dong-Hyun Ahn ¹ , Hyoung Seop Kim ² ¹ Korea Atomic Energy Research Institute, Daejeon, South Korea, ² Pohang University of Science and Technology, Pohang, South Korea | | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|----------------|---|
| P2 | Thursday September 21, 2017 |
| ΓΖ | Symposium D.3: Materials at extreme conditions: static or dynamic compression combined or not with low or high temperatures |
| | PRESSURE-ASSISTED PHOTOPOLYMERIZATION IN THE FULLERENE LAYERS OF THE MOLECULAR DONOR-ACCEPTOR COMPLEX {Zndabco}c60 |
| D3-P-THU-P2-10 | Dr K. P. Meletov ¹ , Dr J. Arvanitidis ² , Prof. G. A. Kourouklis ³ , Dr D. Christofilos ³ 'Institute of Solid State Physics RAS, Chernogolovka, Moscow region 142432, Russia, ² Physics Department, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ³ Chemical Engineering Department, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece |
| D3-P-THU-P2-11 | HP-MoO2: A HIGH-PRESSURE POLYMORPH OF MOLYBDENUM DIOXIDE |
| | Dr. Tobias Luedtke ¹ , Dr. Dennis Wiedemann ¹ , Dr. Ilias Efthimiopoulos ² , Mr. Nils Becker ³ , Mr. Stefan Seidel ⁵ , Dr. Oliver Janka ⁵ , Prof. Dr. Rainer Poettgen ⁵ , Prof. Dr. Richard Dronkowski ^{3,4} , Prof. Dr. Monika Koch-Mueller ² , Prof. Dr. Martin Lerch ¹ |
| | ¹ Institut für Chemie, Technische Universität Berlin, Straße des 17. Juni 135, 10623 Berlin, Germany, ² Deutsches GeoForschungsZentrum Potsdam, Telegrafenberg, 14473 Potsdam, Germany, ³ Institut für Anorganische Chemie, RWTH Aachen University, Landoltweg 1, 52056 Aachen, Germany, ⁴ Jülich-Aachen Research Alliance (JARA-HPC), RWTH-Aachen University, , Germany, 5Institut für Anorganische und Analytische Chemie, Universität Münster, Corrensstraße 30, 48149 Muenster, Germany |

| | | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
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| P2 | | Thursday September 21, 2017 |
| FZ | Sym | posium D.6: Multi-Length-Scale Innovations in Damage Evolution in Materials: Characterization, Modeling, and Validation |
| | | CONTRIBUTION OF Cu-Ni PRECIPITATES TO HARDENING IN Bcc Fe MATRIX |
| D6-P-THU | -P2-1 | Yankun dou¹, Lixia Jia¹, Xinfu He¹, Shi Wu, Dongjie Wang ¹China Institute Of Atomic Energy, China |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
|----------------|---|-------------------------------|--------------------|
| P2 | Thursday, September 2 | 21, 201 <i>7</i> | |
| FZ | Symposium D.8: Ab initio models for and elastic properties of advanc | thermodynamic ed materials | |
| | AB INITIO STUDY OF STRUCTURE AND ELASTIC PROPERTIES | S OF HIGH ENTROPY A | LLOYS |
| D8-P-TUE-P2-1 | <u>Dr. Natalia Koval</u> ¹ , Dr. Maite Alducin ¹ , Prof. Iñaki Juaristi ¹ 'Centro De Física De Materiales, San Sebastian, Spain | , Dr. Ricardo Díez Mui | ño¹ |
| D8-P-TUE-P2-2 | INVESTIGATION OF STRUCTURAL, MECHANICAL AND STORA In Reni4Mg (Re: Y and La): First Princples Calculation | | OPERTIES |
| D8-P-10E-P2-2 | <u>Dr. Mostafa Kerim Benabadji</u> ¹¹Division Etude et Prédition des Matériaux,Unité de Recherche Matériaux e | et Energies Renouvelables, | Tlemcen, Algeria |
| | MACHINE-LEARNING BASED POTENTIAL FOR IRON: PLASTI | CITY AND PHASE TRAI | NSITION |
| D8-P-TUE-P2-3 | <u>Dr Jean-Bernard Maillet</u> ¹ , Dr Christophe Denoual ¹ , Pr Ga ¹ CEA-DAM/DIF, Arpajon, France, ² Engineering lab, Uninveristy of Cambrid | | dom |
| 20 2 217 20 / | MATERIALS FOR ADDITIVE MANUFACTURING – HIGH-THROUAB-INITIO PROPERTIES COMPUTATION | UGHPUT | |
| D8-P-TUE-P2-4 | <u>Dr Alexander Perlov</u> ¹ , Dr Martin P. Persson ¹ , Prof Marcel ¹ Dassault Systèmes Biovia, Cambridge, United Kingdom, ² Delft University | , | |
| | MULTI-SCALE SIMULATION OF SEGREGATION FORMATION O | ON THE GRAIN BOUND | ARIES IN AL ALLOYS |
| D8-P-TUE-P2-5 | Mikhail Petrik ^{1,2} , Yuri Gornostyrev ^{1,2} , Andrey Kuznetsov ^{1,2} , 'Institute of Metal Physics Ural Branch RAS, Yekaterinburg, Russian Federa Yekaterinburg, Russian Federation | | Materials Science, |
| | MECHANICAL PROPERTIES OF TI-Nb BASED ALLOYS BY DEITHEORY CALCULATIONS | NSITY FUNCTIONAL | |
| D8-P-TUE-P2-6 | Accos Prof Christina Lekka ¹ , Dr J.J. Gutierrez-Moreno ² , Assoc Prof D.G Papageorgiou ¹ , Prof G A Evangelakis ¹ 'University Of Ioannina, Ioannina, Greece, ² Tyndall National Institute, Cork | | |
| | THEORETICAL INVESTIGATIONS ON ELECTRONIC, MAGNETIC PROPERTIES OF Mn3-X-C (X = Ga, Ge, Sn, In) COMPOUNDS | C AND STRUCTURAL | |
| D8-P-TUE-P2-7 | <u>Dr Vladimir Sokolovskiy</u> ¹ , Mr. Dmitriy Kopilov ¹ , Dr Mikha ¹ Chelyabinsk State University, Chelyabinsk, Russian Federation | il Zagrebin¹, Prof Vasi | lliy Buchelnikov¹ |
| DO D THE DO O | THE THERMODYNAMIC PROPERTIES AND BONDING FEATUR B2 RARE-EARTH INTERMETALLIC COMPOUNDS: FIRST PRIN | | |
| D8-P-TUE-P2-8 | SEKKAL Abdessamad School Preparatory Science And Techniques Algiers, Tlemcen, Algeria | | |
| | SELF-DIFFUSION AND IMPURITY-DIFFUSION OF Ag AND Pd | : FIRST-PRINCIPLES (| CALCULATIONS |
| D8-P-TUE-P2-9 | Sergiy Zamulko ¹ , Oleg Gorbatov ^{2,3} , Sergiy Sidorenko ⁴ , An ¹ University Of Oslo, Oslo, Norway, ² KTH Royal Institute of Technology, Stoc cal University, Magnitogorsk, Russia, ⁴ National Technical University of Ukr | ckholm, Sweden, ³Nosov Ma | |
| | STUDY OF AMYLOID STABILITY | | |
| D8-P-TUE-P2-10 | Professor Snezana Zaric ^{1,2} , Dragan Ninkovic ¹ , Dusan Ma ¹ Texas A&m University At Qatar, Doha, Qatar, ² University of Belgrade, Belg | | ovic ¹ |
| D8-P-TUE-P2-11 | AB-INITIO AND CVM CALCULATIONS ON Fe-M SYSTEMS (Ma | =TRANSITION METAL) | |
| | Prof. Luiz T. F. Eleno ¹ , Prof. Helena M. Petrilli ³ , Prof. Arle Prof. Leonardo Errico ² , Prof. Claudio G. Schon ⁴ | | |
| | ¹ Lorena School of Engineering, University Of Sao Paulo, Lorena, Brazil, ² Ui ³ Physics Institute, University of Sao Paulo, Sao Paulo, Brazil, ⁴ Polytechnic | | |
| D8-P-TUE-P2-12 | CHARGED VACANCY DEFECTS IN THE AIN NANOSHEET: A FI | RST-PRINCIPLES DFT | STUDY |
| | <u>Dr William Perez</u> ¹ , Dr Rafael Gonzalez ¹ , Msc Alvaro Gonz ¹ Universidad Del Norte, Barranquilla, Colombia | alez ¹ | |

| | TIME: 13:00–15:00 R00M: F0YER, E1/M1 |
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| DO | Thursday, September 21, 2017 |
| P2 | Symposium D.8: Ab initio models for thermodynamic and elastic properties of advanced materials |
| D8-P-TUE-P2-13 | Ab-INITIO STUDY OF STRUCTURAL, MECHANICAL AND HYDROGEN STORAGE PROPERTIES IN RARE EARTH COMPOUNDS RENI4Mg (RE: Y AND La) |
| | Dr. Mostafa Kerim Benabadji ¹ ¹ Division of Materials Study and Prediction (DEPM), Research Unit for Materials and Renewable Energies (URMER) Abou Bekr Belkaid University Tlemcen, Tlemcen, Algeria, ² High School in Electrical and Energy Engineering, Oran, Algeria |
| | EFFECTIVE MODEL POTENTIALS: APPLICATION TO FERROIC MATERIALS |
| D8-P-TUE-P2-14 | Carlos Escorihuela ¹ , Dr Jorge Íñiguez ^{1,2} ¹Luxembourg Institute Of Science And Technology, Esch sur Alzette, Luxembourg, ²Institut de Ciència de Materials de Barcelona, Bellaterra, Spain |
| D8-P-TUE-P2-15 | DOPANT-DEFECT INTERACTIONS IN Ge AND GeO2: DENSITY FUNCTIONAL THEORY CALCULATIONS |
| | Dr E. N. Sgourou ^{1,2} , Prof Alexander Chroneos ^{3,4} , <u>Dr Yerassimos Panayiotatos</u> ¹ ¹Department of Mechanical Engineering, Piraeus University of Applied Sciences, Athens, Greece, ²Solid State Physics Section, University of Athens, Panepistimiopolis Zografos, Greece, ³Department of Materials, Imperial College London, London SW7 2BP, United Kingdom, ⁴ Faculty of Engineering and Computing, Coventry University, Priory Street, Coventry CV1 5FB, United Kingdom |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
|-------------------|--|---|--------------------|
| P2 | Thursday, September 21, 2017 | | |
| PZ | Symposium D.10: Multiscale Model | ing of Materials | |
| D10-II-P-THU-P2-1 | THE EFFECTS OF RELATIVE POSITION ON THE INTERACTION AND INTERSTITIAL DISLOCATION LOOP IN BCC-Fe | BETWEEN EDGE DISL | OCATION |
| | Lixia Jia ¹ , Xinfu He ¹ , Shi Wu, Yankun Dou, Dongjie Wang, Volina Institute of Atomic Energy, Beijing, China | Wen Yang | |
| | SELF-MULTIPOLE-CONSISTENT TIGHT BINDING FOR MATER | RIALS MODELLING | |
| D10-II-P-THU-P2-2 | Mr Max Boleininger ¹ , Dr. Andrew Horsfield ¹ ¹ Department of Materials, Imperial College London, London, United Kingd | om | |
| | PARTICLE MANIPULATION IN MICROFLUIDIC SYSTEMS | | |
| D10-II-P-THU-P2-3 | Using Peristaltic Waves Dr. Keyvan Sadeghy¹, Ms. Zahra Poursharifi¹ | | |
| | ATOMISTIC STRUCTURE OF CALCIUM SILICATE HYDRATE IN | CEMENTITIOUS SYSTE | MS |
| D10-II-P-THU-P2-4 | Aslam Kunhi Mohamed ¹ , Dr. Sandra Galmarini ² , Prof. Pau Prof. Karen Scrivener ¹ , Prof. Stephen Parker ³ | ıl Bowen¹, | |
| | ¹ EPFL, Lausanne, Switzerland, ² EMPA, Dubendorf, Switzerland, ³ University | | Inited Kingdom |
| | ATOMIC-SCALE COMPUTATIONAL DESIGN OF HYDROPHOBIC FOR AEROSPACE APPLICATIONS | MATERIALS | |
| D10-II-P-THU-P2-5 | Prof. Krzysztof Jan Kurzydlowski ^{1,2} , MSc. Kamil Czelej ² , PhD. Piotr Spiewak ² , MSc. Mateusz Grybczuk ² , DSc. Toma | MSc. Marcin Zemla², sz Wejrzanowski² | |
| | ¹ Technology Partners Foundation, Warsaw, Poland, ² Warsaw University of Faculty of Materials Science and Engineering, Warsaw, Poland | Technology, | |
| | MULTISCALE MODELLING OF GRADIENT NANOSTRUCTURES | MATERIALS WITH GR | AIN SIZE GRADIENT |
| D10-II-P-THU-P2-6 | Associate Professor Xu Zhang ¹Soutwest Jiaotong University, Chengdu, China | | |
| | VHDL-AMS MODELING OF A STERLING MACHINE | | |
| D10-II-P-THU-P2-7 | <u>Doctors Fatima Zohra Baouche</u> ¹ , Master student Benatn ¹ University Djilali Bounaama Khemis Miliana, Route Theniet Elhad; 44225, | | |
| D10-II-P-THU-P2-8 | HYBRID ATOMISTIC-CONTINUUM MODELLING OF LIQUID-LI | QUID INTERFACE | |
| | Dr. Angelo Damone ¹ ¹ University Of Brescia, Brescia, Italy | | |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 | |
|----------------|--|---|--|--|
| P2 | Thursday, September 2 | 1, 2017 | | |
| 1 4 | Symposium E.4: Materials for Nuclear En | ergy (fusion, fiss | ion) | |
| E4-P-THU-P2-1 | MULTIWAVELENGTH RAMAN MICROSCOPY STUDY OF LABOR NATIVE OXIDES AND W-D BONDS | RATORY TUNGSTEN SA | MPLES: | |
| | Dr. Cedric Pardanaud¹, Dr. Y. Ferro¹, Dr Z. Piazza¹, G. Giac Dr H. Hijazi¹, Dr. L. Couedel¹, Dr C. Arnas¹, Pr. P. Roubin¹, D Dr K. B. Roh², Dr D. Dellasega³,⁴, Dr. A. Pezzoli³, Dr. M. Pas Dr. M. I. Rusu⁵,⁴, Dr. P. Dinca⁵, Dr. M. Lungu⁵ ¹Aix-marseille Université, Marseille, France,²Seoul National University, Gv Politecnico di Milano, Milano, Italy, ⁴Istituto di Fisica del Plasma "P.Caldirol ⁵eNational Institute for Laser, Plasma and Radiation Physics, Magurele-Bu Optoelectronics, Magurele-Bucharest, Romania | Ir T. Oda ² , Dr. G. H. Kir ssoni ³ , Pr. C. P. Lungu vanak-gu, South Korea, ³ Dip la", Consiglio Nazionale del | n ² , Dr Y. Jin ² , ⁵ , Dr. C. Porosnicu ⁵ , partimento di Energia, le Ricerche, Milano, Italy, | |
| | RESPONSE OF TUNGSTEN AS PLASMA FACING MATERIAL TO | O TRANSIENT THERMA | AL LOADS | |
| E4-P-THU-P2-2 | Marius Wirtz ¹ , Jochen Linke ¹ , Thorsten Loewenhoff ¹ , Ger ¹ Forschungszentrum Jülich Gmbh, Jülich, Germany, ² SCK•CEN, The Belgia | , , | | |
| | CORROSION BEHAVIOUR AND MICROSTRUCTURAL STABILITY OF ALUMINA-FORMING AUSTENITIC STEELS EXPOSED TO OXYGEN-CONTAINING MOLTEN LEAD | | | |
| E4-P-THU-P2-3 | Hao Shi ¹ , Dr. Adrian Jianu ¹ , Dr. Alfons Weisenburger ¹ , Cho Dr. Renate Fetzer ¹ , Prof. Georg Mueller ¹ ¹ Karlshuhe Institute of Technology, Eggenstein-Leopoldshafen, Germany | ongchong Tang ¹ , Dr. A | nnette Heinzel ¹ , | |
| | NEUTRON IRRADIATED HIGH Cu-CONTAINING RPV STEELS | | | |
| E4-P-THU-P2-4 | Dr. Jarmila Degmova ¹ , MSc. Stanislav Pecko ¹ , Dr. Julius Dekan ¹ , Dr. Jana Simeg Veternikova ¹ , Dr. Stanislav Sojak ¹ , Dr. Martin Petriska ¹ , Prof. Vladimir Slugen ¹ 'Inpe Fei Stu, Bratislava, Slovakia | | | |
| | THERMAL PROPERTIES OF NOVEL WC-Cu CERMETS FOR FU | SION APPLICATIONS | | |
| E4-P-THU-P2-5 | Miss Marta Dias ¹ , F. Guerreiro ¹ , Elena Tejado ² , U.V. Mardo J.Y. Pastor ² , P. A. Carvalho ^{1,5} , E. Alves ¹ | lcar³, J.B. Correia⁴, T. | Palacios², | |
| | 'Instituto de Plasmas e Fusão Nuclear, Instituto Superior Técnico, Universid de Ciencia de Materiales-CIME, Universidad Politécnica de Madrid, Madrid Técnico, Lisbon, Portugal, 'LNEG, Laboratório Nacional de Energia e Geolo Técnico, Universidade de Lisboa, Lisbon, Spain | l, Spain, ³Departamento de l | Física, Instituto Superior | |
| | DEFECT PROCESSES OF Ti3AC2 MAX PHASES: INSIGHTS FROM ATOMISTIC MODELLING | | | |
| E4-P-THU-P2-6 | Dr Nikolaos Kelaidis ¹ , Dr Stavros-Richard G. Christopoul Dr. Micheal E. Fitzpatrick ¹ , Dr Alexander Chroneos ^{1,2} | os ¹ , Dr David C. Parfit | t ¹ , | |
| | ¹ Faculty of Engineering, Environment and Computing, Coventry University, ² Department of Materials, Imperial College London, South Kensington Can | | | |
| | GRAIN BOUNDARY SELF-DIFFUSION IN FLUORITE-STRUCTU | IRED OXIDES | | |
| E4-P-THU-P2-7 | Dr. Stavros-Richard G. Christopoulos ¹ , Dr. David C. Parfitt Dr. Micheal E. Fitzpatrick ¹ , Dr. Nikolaos Kelaidis ¹ , Dr. Ale | | | |
| | ¹ Faculty of Engineering, Environment and Computing, Coventry, United Kin ² Department of Materials, Imperial College London, South Kensington Can | | ted Kingdom | |
| | MODELLING MeV ION IMPLANTATION IN ALPHA-Fe WITH OB | JECT KINETIC MONTE | CARLO | |
| E4-P-THU-P2-8 | Dr Juan Pablo Balbuena ¹ , A. Sand ² , C. Björkas ² , K. Nordlu Prof. Dr. Maria José Caturla ¹ | ınd², R. Schäublin³, | | |
| | ¹ Dept. Física Aplicada, Facultat de Ciencies, Universitat d'Alacant, Alacant, Post-office box 43, FIN-00014, Helsinki, Finland, ³ Dept. of Materials, ETH Z | | | |
| E4-P-THU-P2-9 | ASSURANCE OF SAFE AND LONG TERM OPERATION OF WWI PRESSURE VESSEL INTERNALS | ER-440 NUCLEAR REA | CTOR | |
| | Bc. Ondřej Buršík¹, Ing. Radim Kopriva¹, Ing. Milos Kytka¹, Ing. PhD. Ales Materna²¹ÚJV Řež, a.s., Husinec, Czech Republic, ²FNSPE CTU in Prague, Prague, Czech Republic | | | |
| | GRAIN BOUNDARY DIFFUSION OF Ag AND Pd IN SIC | | | |
| E4-P-THU-P2-10 | David Navarro ¹ , Felix Cancino ¹ , Dr Eddie Lopez-honorato ¹ Cinvestav, Saltillo, Mexico | <u></u> | | |
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| | TIME: 13:00–15:00 R00M: F0YER, E1/M1 | |
|---|--|--|
| P2 | Thursday, September 21, 2017 | |
| Symposium E.4: Materials for Nuclear Energy (fusion, fission) | | |
| | PRECIPITATION IN ZIRCONIUM ALLOYS: CHARACTERIZATION METHODS | |
| E4-P-THU-P2-11 | Mr Zaheen Shah ¹ , Professor Joseph Robson ¹ , Professor Michael Preuss ¹ , Mr Magnus Limbäck ² , Mr Mattias Alm ³ | |
| | ¹University Of Manchester, Manchester, United Kingdom, ²Westinghouse, Västeräs, Sweden, ³AB Sandvik Materials Technology, Sandviken, Sweden | |
| E4-P-THU-P2-12 | ESTIMATION OF THE TRITIUM RETENTION IN ITER TUNGSTEN DIVERTOR TARGET USING MACROSCOPIC RATE EQUATION SIMULATIONS | |
| | Christian Grisolia ^{1,2} , E.A. Hodille ³ , E. Bernard ¹ , S. Markelj ⁴ , J. Mougenot ⁵ , C. Becquart ⁶ , R. Bisson ³ | |
| | ¹Cea - France, Saint Paul Lez Durance, France, ²National Research Nuclear University "MEPhl", Moscow, Russia, ³Aix-Marseille University, Marseille, France, ⁴Jozef Stefan Institute,, Ljubljana, Slovenia, ⁵LSPM, Villetaneuse, France, ⁴Lille University, UMET, Villeneuve d'Ascq, France | |
| E4-P-THU-P2-13 | MEV ELECTRON-BEAM IRRADIATION OF TUNGSTEN FOR VACANCY CREATION | |
| | Dr. Fabio Borgognoni ¹ , Dr. Matej Mayer ² , Dr. Luigi Picardi ¹ , Dr. Monia Vadrucci ¹ , Mr. Mikhail Zibrov ^{2,3} | |
| | ¹ENEA, Frascati, Italy, ²Max-Planck-Institut für Plasmaphysik, Garching, Germany, ³Ghent University, Ghent, Belgium | |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|----------------|---|
| P2 | Thursday, September 21, 2017 |
| 1 2 | Symposium E.6: Advanced Materials for Transport Applications |
| E/ D.TIII Do 4 | MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED 5083 ALUMINUM ALLOYS REINFORCED WITH MICRO- AND NANO-PARTICLES |
| E6-P-THU-P2-1 | Dr. Axel von Hehl ^{1,2} , Anastasiya Egorova ^{1,2} ¹ University of Bremen, Bremen, Germany, ² IWT Stiftung Institut für Werkstofftechnik, Bremen, Germany |
| | INTERNAL STRUCTURING IN ADDITIVELY MANUFACTURED METAL PARTS: A THEORETICAL STUDY ON POTENTIALS AND APPROACHES BASED ON THE BINDER JETTING PROCESS |
| E6-P-THU-P2-2 | <u>DrIng. Dirk Lehmhus</u> ¹ , DrIng. Axel von Hehl ² , Ramil Basyrov ¹ , Maurice Bethke ¹ , Robert Koesters ¹ , Prof. DrIng. Matthias Busse ³ , Prof. DrIng. Hans-Werner Zoch ² |
| | ¹ University Of Bremen, Bremen, Germany, ² Stiftung Institut für Werkstofftechnik, Bremen, Germany, ³ Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM), Bremen, Germany |
| | APPROACH TO A FASTER ALLOY DEVELOPMENT FOR ADDITIVE MANUFACTURING USING MEDIUM MANGANESE STEEL |
| E6-P-THU-P2-3 | Lena Heemann ¹ , Daniel Knoop ¹ , Dr. Axel von Hehl ¹ , Farhad Mostaghimi ¹ , Dr. Volker Uhlenwinkel ¹ , Bernd Schob ² , Frank Schubert ² , Prof. Dr. Lothar Kroll ² 'IWT Bremen, Bremen, Germany, ² TU Chemnitz, SLK, Chemnitz, Germany |
| | MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED 5083 ALUMINUM ALLOYS REINFORCED WITH MICRO- AND NANO-PARTICLES |
| E6-P-THU-P2-4 | Dr. Dimitrios Dragatogiannis¹, Ioannis Pantelis², Panagiotis Karakizis², Irene Kanellopoulou¹, Prof. Dimitrios Pantelis², Prof. Costas Charitidis¹ |
| | ¹Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, Athens, Greece, ²Shipbuilding Technology Laboratory, School of Naval Architecture and Marine Engineering, National Technical University of Athens, 9 Heroon, Polytechniou st., Zografos, Athens, GR-157 80, Greece |
| | HEAT TREATMENT PROCESS FOR LASER ADDITIVE MANUFACTURED, HIGH-STRENGTH ALUMINUM STRUCTURES |
| E6-P-THU-P2-5 | <u>Daniel Knoop</u> ¹ , Eric Gärtner ² , Gunther Mohr ³ , Dr. Axel von Hehl ¹ , Prof. Dr. Hans-Werner Zoch ¹ 'Stiftung Institut für Werkstofftechnik Bremen, Bremen, Germany, ² Universität Bremen, Bremen, Germany, ³ Technische Universität Hamburg, Hamburg, Germany |
| | |

| | | TIME: 13:00-15:00 | ROOM: FOYER, E1/M1 |
|----------------|---|---|--|
| D2 | Thursday, September 2 | 1, 2017 | |
| PZ | Symposium F.2: Biomaterials for the | rapeutic delivery | |
| | NANOEMULSIONS BY NATURAL COMPOUNDS: AN INNOVATION | VE APPROACH TO BRA | AIN DELIVERY |
| F2-P-THU-P2-1 | Dr Federica Rinaldi¹, Dr Patrizia Nadia Hanieh², Professor Carafa², Dr Carlotta Marianecci² | Elena Del Favero³, Pi | rofessor Maria |
| | 'Fondazione Istituto Italiano di Tecnologia, Center for Life Nano Science@istry and Technology, University of Rome "Sapienza", Rome, Italy, 'Departa Medicine, University of Milan, Milan, Italy | | |
| | COMPARING TRANSFECTION EFFICACY BETWEEN LIPOPLEX | ES AND GOLD NANOP | ARTICLES |
| F2-P-THU-P2-2 | Professor Jesus Santamaria ¹ , Ms Maria Encabo-Berzosa, Sebastian, Dr Silvia Irusta, Dr Manuel Arruebo, Dr Maria P ¹ Universidad De Zaragoza, Zaragoza, Spain | Ms Maria Sancho-Alb ilar Martin Duque | pero, Dr Victor |
| | ION-DOPED MESOPOROUS BIOACTIVE GLASS NANOPARTICL | ES FOR WOUND HEAL | ING APPLICATIONS |
| F2-P-THU-P2-3 | Alessandra Bari¹, Sonia Fiorilli¹, Carlotta Pontremoli¹, Joa Sheila MacNeil³, Chiara Vitale-Brovarone¹ | nna Shepherd², Anth | ony J. Bullock³, |
| | ¹ Department of Applied Science and Technology, Politecnico di Torino, Cor Clinical Dentistry, The University of Sheffield, ¹⁹ Claremont Crescent, Shef Kroto Research Institute, University of Sheffield,Broad Lane, Sheffield S ² 7 | field S¹0 ²TA, , ³Department | ¹² 9, Torino, , ² School of t of Engineering Materials, |
| | SYNTHESIS, CHARACTERIZATION AND DRUG RELEASE PROF OF A THREE-STIMULI-SENSITIVE HOLLOW NANOCONTAINER | | |
| F2-P-THU-P2-4 | Gianluca Toniolo ¹ , ² , Dr. Eleni Efthimiadou ¹ , ³ , Dr. George Ko Dr. Chryssostomos Chatgilialoglu ⁴ | ordas¹, | |
| | National Center for Scientific Research Demokritos, INN, Athens, Greece, tional and Kapodistrian University of Athens, Panepistimioupoli, Zografou, (CNR), ISOF, Bologna, Italy | | |
| | MESOPOROUS GLASSES DOPED WITH IONS: BIOCOMPATIBIL AND ANTIBACTERIAL EFFECT | LITY, OSTEOGENIC ACT | IVITY |
| F2-P-THU-P2-5 | Carlotta Pontremoli ¹ , Alessandra Bari ¹ , Giorgio Iviglia ² , El Marco Morra ² , Sonia Fiorilli ¹ , Chiara Vitale-Brovarone ¹ ¹ DISAT, Politecnico Di Torino, Torino, ² Nobil Bio Ricerche Srl, Portacomaro, | | sinelli², |
| | SYNTHESIS AND MODIFICATION OF POROUS CARBON NANO FOR THERAPEUTIC APPLICATIONS | PARTICLES | |
| F2-P-THU-P2-6 | Dr. Dimitra Giasafaki¹, Mr. Miguel Gisbert² ³, Dr. Georgia C ka¹, Dr. Miguel Manzano² ³, Prof. María Vallet-Regí² ³, Dr. Č | haralambopoulou¹, M Theodore Steriotis¹ | ls. Lamprini Boutsi- |
| | ¹ National Center For Scientific Research "Demokritos", Agia Paraskevi Attil Bioinorgánica, Universidad Complutense de Madrid, Madrid, Spain, ³ Netwo rials and Nanomedicine (CIBER-BBN), Madrid, Spain | kis, Greece, ² Departamento orking Research Center on i | de Química Inorgánica y Bioengineering, Biomate- |
| | NON-INVASIVE IMAGING OF PH IN BACTRIALLY INFECTED T IMPLICATIONS FOR PAYLOAD RELEASE FROM MESOPOROU | | |
| F2-P-THU-P2-7 | Dr Anthony Bullock ¹ , Marcela Garcia ¹ , Dr Joey Shepherd ¹ , razán ³ , Dr Manuel Manzano ³ , Professor Maria Vallet-Regi ² Chiara Vitale-Brovarone ² , Professor Sheila MacNeil ¹ | Alessandra Bari², Ma 3, Professor Sonia Fid | anuel Gisbert-Ga- orilli², Professor |
| | ¹ University Of Sheffield, Broad Lane, United Kingdom, ² Politecnico di Torin ³ Complutense University of Madrid, Madrid, Spain | o, Torino, Italy, | |
| | "SMART" DRUG DELIVERY SYSTEMS OF ANTITUMOR ACTION ON METALORGANIC FRAMEWORKS | BASED | |
| F2-P-THU-P2-8 | Anna Simagina ¹ , Evgeny Pidko ¹ , ² , Alexandr Vinogradov ¹ , A ¹ Laboratory of Solution Chemistry of Advanced Materials and Technologica ation, ² Inorganic Materials Chemistry group, Eindhoven University of Techn Budgetary Scientific Institution «N.N. Blokhin Cancer Research Center» of Moscow, Russian Federation | s, ITMO University, Saint-pe nology, Eindhoven, The Net | herlands, ³Federal State |
| | BIOCOMPATIBLE AND SUPERHYDROPHOBIC ACUSTO-MAGN | ETIC MICROSWIMMER | S FOR HEALTHCARE |
| F2-P-THU-P2-9 | Dr. Carmela De Marco ¹ , Dr. Daniel Ahmed ¹ , Matilde Fiori ¹ , Dr. Salvador Pané-Vidal ¹ , Prof. Bradley Nelson ¹ 'ETH, Zurich, Switzerland | Cornel Dillinger ¹ , | |
| F0 D ===== | SYNTHESIS OF MN0.5ZN0.5FE2O4 FERRITE NANOPARTICLES V SEQUENT MICROWAVE HEATING | /IA MECHANICAL ACT | IVATION AND SUB- |
| F2-P-THU-P2-10 | Associate Professor Omid Mirzaee ¹ , Bs student Maryam Ja Faculty Of Materials & Metallurgical Engineering Of Semnan University, S | | |

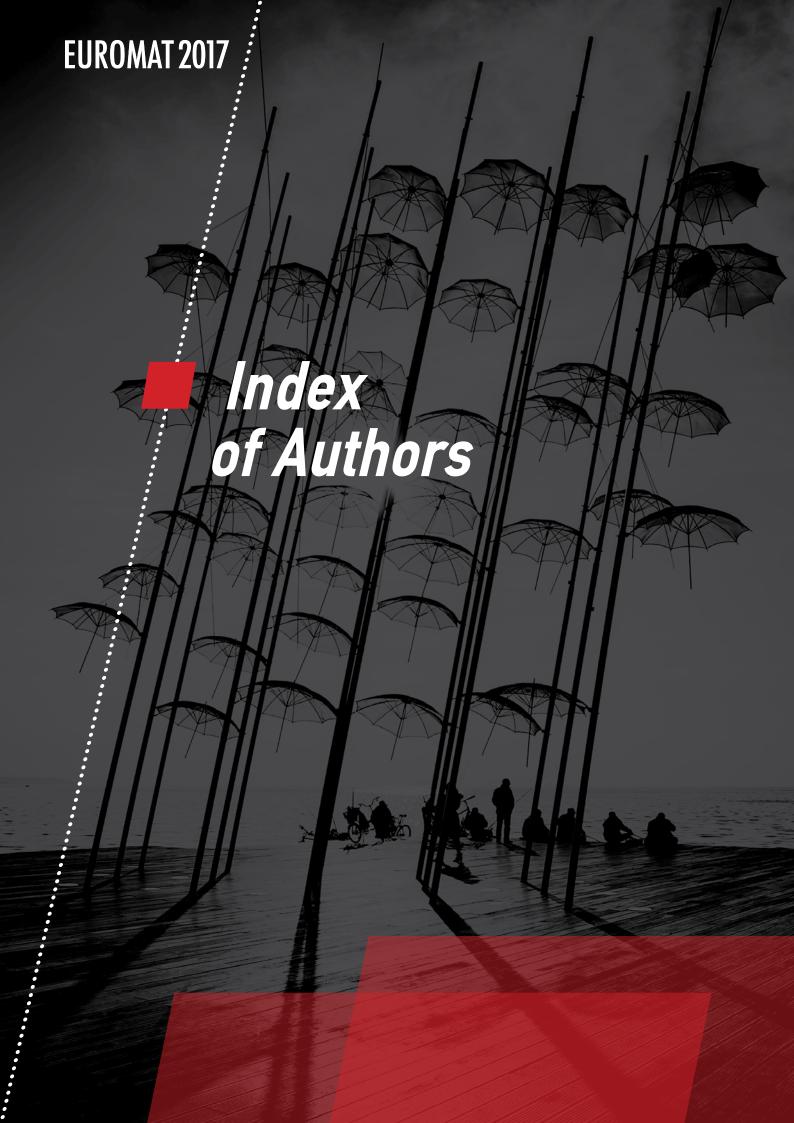
| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|---------------|--|
| P2 | Thursday, September 21, 2017 |
| 12 | Symposium F.3: Nanobiomaterials and nanotechnology for implants, devices and theranostics |
| | NANO-HYBRIDS OF CURCUMIN AND Fe-BASED CLUSTERS BY DENSITY FUNCTIONAL THEORY |
| F3-P-THU-P2-1 | Accos Prof Christina Lekka ¹ , Ms K.N. Botsiou ¹ , Mr D.G. Karantzinis ¹ **University Of Ioannina, Ioannina, Greece** |
| | STUDY OF THE INTERACTION OF WATER ON HYBRID SILANIZED POROUS SILICON BY ENVIRONMENTAL SEM |
| F3-P-THU-P2-2 | Chloé Rodriguez ¹ , Dr Vicente Torres Costa ¹ , María Cascajo Castresana ² , Dr Sylvie Morin ² , Dr Alexander Bittner ² , Dr Miguel Manso ¹ |
| | ¹ Universidad Autónoma Of Madrid, Madrid, Spain, ²C.1.C. Nanogune, San Sebastián, Spain |
| | TITANIA DOPED ZnO; IMPROVING THE LIFETIME AND STABILITY OF ZnO BIOMEDICAL DEVICES |
| F3-P-THU-P2-3 | MSc Rehab Ramadan¹, MSc Rosalía Delgado Carrascón¹, Phd Maria D Ynsa Alcalá¹, PhD Vicente Torres Costa¹, Phd Miguel Manso Silvan ¹ |
| | ¹ Universidad Autónoma De Madrid, Madrid, Spain |
| | HYBRID HYDROXYAPATITE-POLYETHYLENE OXIDE COATING ON YTTRIA STABILIZED ZIRCONIA (3Y-TZP) DISCS |
| F3-P-THU-P2-4 | Professor Athena Tsetsekou¹, student Panagiotis Karayannis ¹, PHD student Fotini Petrakli¹, PhD student Giorgos Stergiou¹ |
| | 'School of Mining and Metallurgical Engineering, National Technical University of Athens, Athens, Greece |
| | PAIR DISTRIBUTION FUNCTION ANALYSIS OF SYNTHESISED FLUORAPATITE IMPLANT COATINGS FOR USE IN REGENERATIVE DENTISTRY |
| F3-P-THU-P2-5 | Mr. Ovando Carter ¹ |
| | ¹ Queen Mary, University Of London, Flat 4, 2 Ordell Court, United Kingdom, ²Queen Mary, University of London, Mile End, London, U.K. |
| | ADDITIVE MANUFACTURING OF PERSONALISED BIOFUNCTIONAL SCAFFOLDS FOR TISSUE REGENERATION |
| F3-P-THU-P2-6 | Dr. Despoina Brasinika ^{1,2,} Eleni Gartzou ¹ , <u>Dr. Elias Koumoulos</u> ^{1,2} , Prof. Costas Charitidis ¹ |
| | ¹ Research Unit of Advanced, Composite, Nano-Materials and Nanotechnology, School of Chemical Engineering, National Technical University of Athens, http://nanolab.chemeng.ntua.gr/, Athens, Greece, ² BioGen3D-New 3D Printing Technologies, Technological Cultural Park Lavrion, http://biogen3d.gr, Lavrion, Greece |
| | CONTROLLING ZINC OXIDE NANOPARTICLES BEHAVIOR IN INORGANIC AND BIOLOGICAL FLUIDS |
| F3-P-THU-P2-7 | MD Eng. Bianca Dumontel ¹ , MD Biol. Marta Canta ¹ , MD Biol. Luisa Racca ¹ , Dr. Giancarlo Canavese ¹ , Prof. Valentina Cauda ¹ |
| | ¹ Department of Applied Science and Technology (DISAT), Politecnico Di Torino, Turin, Italy |
| | ENCRYPTED PEPTIDE SEQUENCE FOR ACTIVATABLE SEQUENTIAL TISSUE AND CELLULAR TARGETING |
| F3-P-THU-P2-8 | <u>Dr. Alejandro Baeza</u> ¹ , Dr. Gonzalo Villaverde ^{1,3} , Mss Valentina Nairi ² , Prof. Maura Monduzzi ² , Prof. Maria Vallet-Regí ^{1,3} |
| | ¹ Universidad Complutense De Madrid, Madrid, Spain, ² Dept. Scienze Chimiche e Geologiche, Cagliari University, Cagliari , Italy, ³ Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain |

| | TIME: 13:00-15:00 ROOM: FOYER, E1/M1 |
|----------------|---|
| P2 | Thursday, September 21, 2017 |
| PZ | Symposium F.6: Bio-Inspired Materials: From structural materials towards multi-functional biomaterials |
| | INFLUENCE OF THE THERMAL TREATMENT AND PARTICLE SIZE OF Ce-TZP AND Y-TZP MIXTURES, FOR DENTAL APPLICATION |
| F6-P-THU-P2-1 | Dr. Joana Mesquita-guimaraes ^{1,2} , MSc Diana Faria ¹ , Karen Bolis ² , Dr. Júlio Souza ³ , Prof. Bruno Henriques ^{2,1} , Prof Márcio Fredel ² , Prof Filipe Silva ¹ |
| | ¹ 1Center for Microelectromechanical Systems (CMEMS-UMinho) University of Minho, Guimarães, Portugal, ² 2Department of Mechanical Engineering (EMC) Federal University of Santa Catarina (UFSC), Florianópolis, Brazil, ³ 3Center for Research on Dental Implants (CEPID), School of Dentistry (ODT), Federal University of Santa Catarina (UFSC), Florianópolis, Brazil |
| E/ D TILL DC C | CHARACTERIZATION OF TERNARY TITANIUM BASED ALLOYS FOR ADVANCE BIOMEDICAL APPLICATIONS |
| F6-P-THU-P2-2 | Mr. Ahmet Burçin Batıbay¹, Dr. Hasan Kotan¹, Dr. Atilla Evcin² ¹Konya Necmettin Erbakan University, Konya, Turkey, ²Afyon Kocatepe University, Afyon, Turkey |
| | COST EFFECTIVE NATURAL MATERIALS FOR REMEDIATION OF HEAVY METALS |
| F6-P-THU-P2-3 | Prof. Ibrahim Medhat ¹ |
| | 'Spectroscopy Department, National Research Centre (NRC), Dokki, Cairo, Egypt |
| | IMPROVED MECHANICAL PROPERTIES OF DIOPSIDE CERAMICS SYNTHESIZED FROM COPRECIPITATION-DERIVED POWDERS |
| F6-P-THU-P2-4 | <u>Dr. Noriyuki Iwata</u> ^{1,2} , Dr. Shin-ichi Tanaka², Dr. Geun-hyoung Lee³, Dr. Norimichi Kawashima⁴ |
| ro-r-Inu-rz-4 | ¹ Department of Materials System Engineering, National Institute of Technology, Kurume College, Japan, ² Department of Materials Science and Engineering, National Institute of Technology, Kurume College, Japan, ³ Division of Advanced Materials Engineering, IT Convergence College of Components and Materials Engineering, Dong-eui University, Busan, South Korea, ⁴ International Institute for Science and Education, International Pacific University, Yokohama, Japan |

| | | TIME: 13:00-15:00 | R00M: F0YER, E1/M1 | | |
|---------------|--|--------------------------------------|--------------------|--|--|
| P2 | Thursday, September 2 | 21, 2017 | | | |
| F Z | Symposium F.5: Translation of biomateri innovation and product development: from the state of th | als research tow om concepts to c | ards linic | | |
| | BIOMIMETIC BONE SCAFFOLDS WITH HIERARCHICAL ORGA TRANSFORMATIONS APPLIED TO NATURAL WOODS | NIZATION GENERATED | BY BIOMORPHIC | | |
| F5-P-THU-P2-1 | Ph.D Simone Sprio ¹ , Ph.D Andrea Ruffini ¹ , Ph.D Alberto Ph.D Silvia Panseri ¹ , Ph.D Anna Tampieri ¹ | Ballardini¹, | | | |
| | ¹National Research Council, Institute Of Science And Technology For Ceramics, Faenza, Italy | | | | |
| | COPPER SURFACE CHANGES DURING WET PLATING TESTS | IN ANTI-BACTERIAL S | URFACE RESEARCH | | |
| F5-P-THU-P2-2 | Jiaqi Luo ^{1,2} , Dr. Christina Hein ³ , Prof. Marc Solioz ⁴ , Prof. J Prof. Frank Mücklich ¹ | ean François Pierson | 2 | | |
| | ¹ Functional Materials, Saarland University, , Germany, ² Institut Jean Lamo State Chemistry, Saarland University, Germany, ⁴ Department of Clinical R | | | | |

Poster sessions chart

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| | | Agostini, Giovanni | B7-0-FRI-AM2 | Albrecht, Manfred | E3-P-TUE-P1-17 |
|-----------------------------|----------------------------------|-----------------------------------|------------------------------------|--------------------------|---------------------------------|
| A | | | E4-0-WED-PM1., | Albrecht, Martin | D2-H-TUE-PM1, |
| A. Esin, Vladimir | B6-P-TUE-P1-21 | A | D9-P-TUE-P1-6, | Albrecht, Martin | D2-I/K-TUE-PM2 |
| A. Jimenez, Jose | B1-0-WED-PM1 | Agostini, Pietro | D9-P-TUE-P1-13, D9-P-TUE-P1-14, | Alcón, Mercedes | C1-H-THU-PM1 |
| A. Porter, David | B1-H-WED-PM2 | | D9-0-TUE-AM2 | Alderliesten, René | E6-0-FRI-AM2 |
| A. Santajuana, Miguel | B1-O-WED-PM1, | Agostino, Raffaele Giuseppe | E3-0-WED-PM2, A1-P-THU-P2-11 | Alderman, Martyn | B2-0-M0N-AM2 |
| | B1-P-THU-P2-5 | Agote, Arantxa | F2-0-WED-PM1 | Alducin, Maite | D8-P-TUE-P1-1 |
| A.Jägle, Eric | C4-O-WED-PM2 | Agote, Iñigo | B5-0-MON-AM2 | Alegre, Cinthia | E2-0-M0N-AM2, E2-P-TUE-P1-19 |
| Aarnts, Maxim P. | D1-H-THU-PM1 | | E1-0-MON-PM1, | Alekseev, Artemy | B5-P-TUE-P1-18 |
| Aazou, Safae | E3-0-TUE-PM2 | Agrafiotis, Christos | E3-P-TUE-P1-26 | Alekseev, Olexander | B6-P-TUE-P1-11 |
| Abad, C | F4-0-MON-PM1 | Agroui, Kamel | B10-0-THU-PM1 | Aleksopoulou, Giota | E1-0-MON-AM2 |
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| · | B5-O-MON-PM1, C8-O-FRI-PM1 | Bacakova, Lucie | F1-P-TUE-P1-6 | | D2-I/K-TUE-AM2, |
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| , , | C1-O-MON-AM2, | BADJI, Riad | B3-P-TUE-P1-7 | • | A6-O-FRI-AM2, |
| Atapek, Şaban Hakan | B10-0-THU-PM1 | Badun, Gennady | C5-P-THU-P2-13 | Bangash, Muhammad Kashif | B6-P-TUE-P1-19 |
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| Atmani, Djamila | A7-0-THU-AM2 | | | BARAL, Paul | D4-O-TUE-PM1 |
| AL I D.I I | D1-O-THU-PM1, D1-O-WED-PM1, | Baggetto, Loïc | C1-O-MON-PM2 C1-O-MON-PM2, | Barandiaran, Jose Manuel | H1-O-MON-AM2 |
| Atwood , Robert | D1-P-TUE-P1-7, | Bagherifard, Sarah | C2-P-TUE-P1-4 | Barber, Zoe | A8-O-MON-PM2 |
| | B2-0-WED-PM2 | Bagli, Eleni | F1-0-M0N-AM2 | Barberet, Philippe | A5-H-WED-AM2 |
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| Aubry, Pascal | C2-O-TUE-PM1, C2-O-TUE-PM1 | Bahaa-Eldin, Hassan | B1-O-THU-PM1 | Bárcena-González, G. | D2-O-THU-AM2 |
| Augustin, Till | A3-O-MON-AM2 | Bai, Pucun | D2-P-TUE-P1-25 | Barekar, Nilam | B6-P-TUE-P1-15 |
| Aumund-Kopp, Claus | C4-O-FRI-PM1 | BAI, Qingguo | A5-P-TUE-P1-8 | · | C10-H-THU-PM1, |
| Aurich, Jan C. | C4-0-WED-AM2 | Baier, Horst | E6-O-THU-PM2 | Baretzky, Brigitte | C5-P-THU-P2-6, |
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| Avila, Jose | F3-0-THU-PM1 | Bakandritsos, Aristides | A1-H-FRI-PM1 | Barkoula, Nektaria-marianthi | A3-0-M0N-PM2 |
| Aviles Santillana, Ignacio | E4-0-WED-PM2 | Baker, Alex | H1-H-TUE-AM2 | Barlat, F. | D10-O-WED-PM2 |
| Avishan, Behzad | B1-0-WED-PM2 | Baker, Sarah | H1-H-TUE-AM2 | Barlat, Frédéric | D10-O-WED-PM2 |
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| Aydogdu, Mehmet Onur | B5-0-TUE-AM2 | BALBAUD-CELERIER, Fanny | C2-O-TUE-PM1 | Barraud, Elodie | E6-0-THU-PM1, |
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| AYRAL, André | E1-0-TUE-PM2 | | A2-H-WED-PM1, | Barrera, Gabriele | A2-H-THU-PM1 |
| Ayrinhac, Simon | D3-H-WED-PM1 | Balcells, Lluis | A8-O-MON-AM2 | Barreteau, Cyrille | D8-O-WED-PM1 |
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| Azar, Amin | E3-0-TUE-PM2 | BALCI, ÖZGE | B5-O-MON-PM1 | Barriobero Vila, Pere | B2-O-TUE-AM2, |
| Azarov, Alexander | E3-0-WED-PM1 | Baldomir, Daniel | A2-H-WED-PM2 | · | C4-P-THU-P2-13 |
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| Azeem, Mohammed A | DO O THE AMO | palik, Ivai et | F4-U-MUN-PMZ | Barrutia, Laura | D2-O-TUE-PM1 |
| Azeem, Mohammed A. | B3-0-TUE-AM2 | Ralint Daniel | DA-O-MON-DM1 | | |
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| B Azpiazu, P.M. | F1-0-TUE-AM2 | Ballantyne, Andrew | H2-P-TUE-P1-10 | Bartali, Ruben | E1-P-TUE-P1-8 |
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| Barthel, Etienne | A3-0-M0N-PM1 |
| Barthélémy, A. | A8-O-MON-PM1 |
| Barthélémy, Bastien | C1-O-WED-PM2 |
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| Bassini, Serena | E4-O-WED-PM1., E4-O-WED-PM2, D9-O-TUE-AM2 |
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|---|------------------------|-----------------|
| Becker, Nils 33-P-THU-P2-11 Becquart, C. 64-P-THU-P2-12 Becquart, C.S. 64-O-TUE-PM2 Becquart, Charlotte 09-O-WED-ANZ Becquart, Charlotte S. 09-O-TUE-PM1 Beddir, Fevzi 09-O-TUE-PM1 Bednarcik, Jozef 88-O-WED-PM1 Bedrageris, Glenn 12-O-MON-PM1 Beersaerts, Glenn 12-O-MON-PM1 Behn, Jürgen 62-P-TUE-P1-24 Beis, Hongbin 08-O-THU-MA2 Bein, Thomas 53-I/K-THU-AM2 Bein, Thomas 53-I/K-THU-AM2 Beladi, Hossein 02-P-TUE-P1-1 Beladi, Hossein 02-P-TUE-P1-1 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O-TUE-PM2 Beladi, Hossein 181-O | Becker, Hanka | C3-P-THU-P2-11 |
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| Becquart, Charlotte S. D9-0-TUE-PMI Bedir, Fevzi B10-0-THU-PMI Bedracki, Jozef B8-0-WED-PMI Bedzyk, Michael D1-0-WED-PM2 Beeh, Elmar B2-0-MON-AM2 Beensaerts, Glenn B2-0-MON-PMI Behm, Jürgen E2-P-TUE-P1-24 Bei, Hongbin D8-0-THU-AM2 Beijani, Roland C9-HTUE-P1-1 Bekheet, Maged A7-I-P-TUE-P1-1 Belabbas, Imad D2-P-TUE-P1-1 Beladi, Hossein B1-0-TUE-PM2, B1-HTUE-PM1, B1-0-THU-PM2 Beladi, Hossein B1-0-TUE-PM2, B1-HTUE-PM1, B1-0-THU-PM2 Beladi, Hossein B1-0-TUE-PM2, B1-HTUE-PM1, B1-0-THU-PM2 Bele, Faral G6-0-THU-PM2 Bele, Marjan D2-HTUE-PM1, B6-0-TUE-PM1 Bele, Faral G6-0-THU-PM2 Belkacemi, Lisa D9-0-TUE-PM1 Belkacesa, Brahim G6-P-TUE-P1-3 Bella, Federico A7-II-P-THU-P2-24 Bella, Federico A7-II-P-THU-P2-24 Bella, Federico A7-II-P-THU-P2-24 Bella, Federico A7-II-P-THU-P2-24 Bella, Federico < | | E4-0-TUE-PM2 |
| Bedir, Fevzi | Becquart, Charlotte | D9-O-WED-AM2 |
| Bedrarcik, Jozef B8-0-WED-PM1 Bedzyk, Michael D1-0-WED-PM2 Beeh, Elmar B2-0-MON-AM2 Beersaerts, Glenn H2-0-MON-PM1 Behm, Jürgen E2-P-TUE-P1-2 Bei, Hongbin D8-0-THU-AM2 Beigin, Thomas F3-JKK-THU-AM2 Bejani, Roland C9-H-THU-AM2 Bekheet, Maged A7-I-P-TUE-P1-1 Belabbas, Imad C9-P-TUE-P1-13 Belabbas, Imad B1-0-TUE-PM2, D2-P-TUE-P1-13 Beladi, Hossein B1-0-TUE-PM1, B1-0-THU-PM2 Belamie, Emmanuel F1-0-MON-PM2, F6-0-FRI-PM1 Bele, Eral B6-0-TUE-PM1 Bele, Barjan D2-H-MON-PM2 Belamie, Emmanuel F1-0-MON-PM2 Belacemi, Lisa D9-0-TUE-PM1 Belkessa, Brahim C1-0-THU-PM2 Belkessa, Brahim B10-P-TUE-P1-4 Bellan, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-0-TUE-PM2 Bella, Federico A7-II-P-THU-P2-24 Bellanger, Dierre E3-0-TUE-PM1 Beltas, Illias B1-0-TUE-PM2 Be | Becquart, Charlotte S. | D9-0-TUE-PM1 |
| Bedzyk, Michael D1-0-WED-PM2 Beeh, Elmar B2-0-MON-AM2 Beersaerts, Glenn H2-0-MON-PM1 Behn, Jürgen E2-P-TUE-P1-24 Bei, Hongbin D8-0-THU-AM2 Bein, Thomas F3-I/K-THU-AM2 Beijani, Roland C9-H-THU-AM2 Bekheet, Maged A7-IP-TUE-P1-1 Belabbas, Imad D2-P-TUE-P1-2, D2-P1UE-P1-13 Beladi, Hossein B1-H-TUE-PM1, B1-O-TUE-PM1, B1-O-THU-PM2 Beladi, Hossein F1-TUE-PM1, B1-O-THU-PM2 Bele, Erral F6-O-THU-PM1, B6-O-TUE-PM1 Bele, Erral F6-O-THU-PM1, B6-O-TUE-PM1 Bele, Marjan D2-H-MON-PM2 Belk, Marjan D2-H-MON-PM2 Belkacemi, Lisa D9-O-TUE-PM1 Belkacemi, Lisa D9-O-TUE-PM1 Belkacemi, Lisa D9-O-TUE-PM1 Bellanger, Pierre E3-O-TUE-PM2-2 Bellanger, Pierre E3-O-TUE-PM2-2 Bellanger, Pierre E3-O-TUE-PM1 Bellagos, Renato A5-O-FRI-AM2 Bellagrey, Pierre E3-O-TUE-PM1, D1-P1-P1-P2-Q Bellagrey, Pierre E3-O-TUE-PM | Bedir, Fevzi | B10-O-THU-PM1 |
| Beeh, Elmar | Bednarcik, Jozef | B8-O-WED-PM1 |
| Bersaerts, Gienn H2-0-MON-PM1 Behm, Jürgen E2-P-TUE-P1-24 Bei, Hongbin D8-0-THU-AM2 Bein, Thomas F3-I/K-THU-AM2 Beijani, Roland C9-H-THU-AM2 Bekheet, Maged A7-I-P-TUE-P1-1 Belabbas, Imad D2-P-TUE-P1-13 Beladi, Hossein B1-0-TUE-PM2, B1-0-TUE-PM1, B1-0-THU-PM2 Belamie, Emmanuet F1-0-MON-PM2, F6-0-FRI-PM1 Bele, Eral F6-0-THU-PM1, B6-0-TUE-PM1 Bele, Marjan D2-H-MON-PM2 Belkacemi, Lisa D9-0-TUE-PM1 Belkaessa, Brahim C6-P-TUE-P1-3, B10-P-TUE-P1-4 Belkaessa, Brahim C6-P-TUE-P1-3, B10-P-TUE-P1-4 Bellanger, Pierre E3-0-TUE-PM2 Bellanger, Pierre E3-0-TUE-PM2 Bellanger, Pierre E3-0-TUE-PM2 Bellas, Millias B1-0-TUE-AM2 Bella, Matteo C21-VK-MON-PM1 Belluard, Yves C2-VK-MON-PM1 Beltunder, Manuel C3-0-FRI-PM1 Belvakov, Andrey C2-VK-MON-PM2 Belyakov, Andrey B3-0-MON-PM2, C10-PR1-PM2, B4-PTHU-P2-4, B4-PTHU-P2-3, B4-PTHU-P2-3, B4-PTHU-P2-3, B4-PT | Bedzyk, Michael | D1-O-WED-PM2 |
| Behm, Jürgen E2-P-TUE-P1-24 Bei, Hongbin D8-0-THU-AM2 Bein, Thomas F3-I/K-THU-AM2 Bein, Thomas F3-I/K-THU-AM2 Beknet, Maged A7-I-P-TUE-P1-1 Belabbas, Imad D2-P-TUE-P1-13 Belabbas, Imad B1-0-TUE-PM2, B1-H-TUE-PM1, B1-D-THU-PM2, B1-H-TUE-PM1, B1-O-THU-PM2, B1-H-TUE-PM1, B1-O-THU-PM2, B1-H-TUE-PM1, B1-O-THU-PM2, B6-O-TUE-PM1 Belamie, Emmanuel F1-O-MON-PM2, F6-O-FRI-PM1 Bele, Karjan D2-H-MON-PM2 Belkacemi, Lisa D9-O-TUE-PM1 Belkacemi, Lisa D9-O-TUE-PM1 Belkasa, Brahim C6-P-TUE-P1-3 Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-O-TUE-PM2 Bellanger, Pierre E3-O-TUE-PM2 Bellas, Illias B1-O-TUE-AM2 BELLET, Michel C3-P-THU-P2-9 Belli, Matteo C11-O-THU-PM2-9 Belli, Matteo C11-O-THU-PM2-9 Bellido, Elena F3-O-THU-PM1 Beltonorte, Manuel C3-O-FRI-PM1 Belunorte, Manuel C3-O-FRI-PM1 Belunorte, Thierry C1-O-FRI-AM2 <t< td=""><td>Beeh, Elmar</td><td></td></t<> | Beeh, Elmar | |
| Bei, Hongbin D8-0-THU-AM2 Bein, Thomas F3-I/K-THU-AM2 Beijani, Roland C9-H-THU-AM2 Bekheet, Maged A7-I-P-TUE-P1-1 Belabbas, Imad D2-P-TUE-P1-13 Belabbas, Imad B1-0-TUE-PM2, B1-H-TUE-PM1, B1-0-THU-PM2, B1-H-TUE-PM1, B1-0-THU-PM2, B1-D-THU-PM2, B1-D-THU-PM2 Belamie, Emmanuel F1-0-MON-PM2, F6-0-FRI-PM1, B1-0-THU-PM1, B6-0-TUE-PM1, B6-0-TUE-PM1, B6-0-TUE-PM1, B6-0-TUE-PM1 Bele, Karjan D2-H-MON-PM2, B6-0-TUE-PM1 Belkacemi, Lisa D9-0-TUE-PM1 Belkasa, Brahim C6-P-TUE-P1-3, B10-PTUE-P1-4 Bellanjer, Pierre E3-0-TUE-PM2 Bellanger, Pierre E3-0-TUE-PM2 Bellanger, Pierre E3-0-TUE-PM2 Bellanger, Pierre E3-0-TUE-PM2 Belluda, Hubel C3-P-THU-P2-9 Belli, Mattee C11-0-THU-PM2, B1-0-TUE-PM2 Belli, Mattee C11-0-THU-PM2, B1-0-TUE-PM2 Belluoard, Yves C2-I/K-MON-PM1 Beluoard, Yves C2-I/K-MON-PM1 Beluoard, Maruel C3-0-FRI-PM1 Belnonte, Thierry C1-0-FRI-AM2 Bern Daly, Hachmi B10-0-WED-PM2 | | |
| Bein, Thomas F3-I/K-THU-AM2 Bejjani, Roland C9-H-THU-AM2 Bekheet, Maged A7-I-P-TUE-P1-1 Belabbas, Imad D2-P-TUE-P1-13 Beladi, Hossein B1-O-TUE-PM2, B1-H-TUE-PM1, B1-O-THU-PM2 Beladi, Hossein B1-H-TUE-PM1, B1-O-THU-PM2 Bele, Eral F6-O-FRI-PM1 Bele, Eral F6-O-THU-PM1, B6-O-TUE-PM1 Bele, Marjan D2-H-MON-PM2 Belkacemi, Lisa D9-O-TUE-PM1 Belkacemi, Lisa D9-O-TUE-PM1 Belkassa, Brahim C6-P-TUE-P1-3, B10-P-TUE-P1-4 Bellanger, Pierre E3-O-TUE-PM2 Beldarosa, Renato A6-O-FRI-AM2 Bellanger, Pierre E3-O-TUE-PM2 Bell, Matteo C11-O-THU-AM2, C11-P-THU-P2-9 Belli, Matteo C3-D-THU-P2-9 Belli, Matteo C11-O-THU-AM2, C11-P-THU-P2-17 Beltuard, Yves C2-I/K-MON-PM1 Beltuard, Yves C2-I/K-MON-PM1 Beltuard, Yves C2-I/K-MON-PM1 Belvakov, Andrey B3-O-MON-PM2, C11-P-THU-P2-1, B4-P11-P2-1, B4-P11-P2-1, B4-P11-P2-2, B4-P11-P2-3, B4-P11-P1-P2-3, B4-P11-P2-3, B4-P11-P2-3, B4-P11-P2-3, B4-P11-P2-3, B4-P11-P2-3, B4- | | |
| Bejani, Roland C9-H-THU-AM2 Bekheet, Maged A7-I-P-TUE-PI-1 Belabbas, Imad D2-P-TUE-PI-2, D2-PTUE-PI-2, D2-PTUE-PI-13 Beladi, Hossein B1-O-TUE-PM1 Bel-O-THU-PM2 B1-H-TUE-PM1 Bel-O-THU-PM2 B1-O-THU-PM2 Bele, Eral F6-O-THU-PM1 Bele, Marjan D2-H-MON-PM2 Belkacemi, Lisa D9-O-TUE-PM1 Belkacemi, Lisa D9-O-TUE-PM1 Belkessa, Brahim C6-PTUE-P1-3, B10-PTUE-P1-4 Bellage, Pierre E3-O-TUE-PM2 Bellage, Pierre E3-O-TUE-PM2 Bellage, Pierre E3-O-TUE-PM2 Bellage, Matteo C3-PTHU-PP2-24 Belli, Matteo C3-PTHU-PP2-1 Belli, Matteo C11-O-THU-AM2, C11-PTHU-PM2-17 Bellouard, Yves C2-I/K-MON-PM1 Belnonte, Manuel C3-O-FRI-PM1 Belvakov, Andrey C1-P-FRI-M2 Belvakov, Andrey C1-P-FRI-M2 Benonte, Thierry C1-O-FRI-M2 Ben Daly, Hachmi D10-O-WED-PM2 Ben FAJ, Boutheina B11-O-MON-PM2 | - | |
| Bekheet, Maged A7-I-P-TUE-P1-1 Belabbas, Imad D2-P-TUE-P1-2, D2-P-TUE-P1-13 Beladi, Hossein B1-O-TUE-PM2, B1-O-TUE-PM2, B1-O-THU-PM2 Belamie, Emmanuel F1-O-MON-PM2, F6-O-FRI-PM1 Bele, Eral F6-O-THU-PM1, B6-O-TUE-PM1 Bele, Marjan D2-H-MON-PM2 Belacinistis, Petros C11-O-THU-PM2 Belkacemi, Lisa D9-O-TUE-PM1 Belkessa, Brahim G6-P-TUE-P1-3, B10-P-TUE-P1-3, B10-P-TUE-P1-3, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-3, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-3, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-4, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-1, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-2, B10-P-TUE-P1-1, B10-P-TUE-P1 | • | |
| Belabbas, Imad D2-P-TUE-P1-2, D2-P-TUE-P1-13 Beladi, Hossein B1-O-TUE-PM2, B1-O-TUE-PM2, B1-D-THU-PM2 Belamie, Emmanuel F1-O-MON-PM2, F6-O-FRI-PM1 Bele, Eral F6-O-THU-PM1, B6-O-TUE-PM1 Bele, Marjan D2-H-MON-PM2 Beleniotis, Petros C11-O-THU-PM2 Belkacemi, Lisa D9-O-TUE-PM1 Belkessa, Brahim B10-P-TUE-P1-3, B10-P-TUE-P1-3, B10-P-TUE-P1-3, B10-P-TUE-P1-4 Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-O-TUE-PM2 Bellas, Illias B1-O-TUE-AM2 Beltas, Illias B1-O-TUE-AM2 Beltido, Elena C3-P-THU-P2-9 Belli, Matteo C11-O-THU-AM2, C11-P-THU-P2-17 Belludor, Elena C3-O-FRI-PM1 Belmonte, Manuel C3-O-FRI-PM1 Belmonte, Manuel C3-O-FRI-PM1 Belvakov, Andrey B1-O-THU-PM2-M2, B4-O-THU-PM2-M2, | | |
| Beladi, Hossein B1-0-TUE-PM2, B1-H-TUE-PM1, B1-0-THU-PM2 Belamie, Emmanuel F1-0-MON-PM2, F6-0-FRI-PM1 Bele, Eral F6-0-THU-PM1, B6-0-TUE-PM1 Bele, Marjan D2-H-MON-PM2 Belkacemi, Lisa D9-0-TUE-PM1 Belkacemi, Lisa D9-0-TUE-PM1 Belkassa, Brahim B10-P-TUE-P1-4 Bella, Federico A7-II-P-THU-P2-24 Bellarosa, Renato A6-0-FRI-AM2 Beltas, Illias B1-0-TUE-AM2 Beltas, Illias B1-0-TUE-AM2 Belti, Matteo C11-0-THU-AM2, C11-P-THU-P2-9 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Bellounte, Manuel C3-0-FRI-PM1 Bellounte, Manuel C3-0-FRI-PM1 Bellounte, Thierry C1-0-FRI-AM2 Belyakov, Andrey B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-TUE-PM1, B10-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Fat | | D2-P-TUE-P1-2, |
| Beladi, Hossein B1-H-TUE-PM1, B1-O-THU-PM2 Belamie, Emmanuet F1-O-MON-PM2, F6-O-FRI-PM1 Bele, Eral Bele, Eral Bele, Eral Bele, Marjan D2-H-MON-PM2 Beleniotis, Petros C11-O-THU-PM1 Belkacemi, Lisa D9-O-TUE-PM1 Belkassa, Brahim Belkassa, Brahim Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre B3-O-TUE-PM2 Bellarosa, Renato A6-O-FRI-AM2 Bellas, Illias B1-O-TUE-AM2 Bellas, Illias B1-O-TUE-AM2 Bellido, Elena B1-O-TUE-M1 Bellido, Elena B1-O-THU-PM1 Bellouard, Vves C11-O-THU-AM2, C11-P-THU-P2-17 Bellouard, Ves Bellounte, Manuel Belmonte, Manuel Belmonte, Manuel Belmonte, Thierry C1-O-FRI-AM2 Belyakov, Andrey Belyakov, | | |
| Belamie, Emmanuel F6-0-FRI-PM1 Bele, Eral F6-0-THU-PM1, B6-0-TUE-PM1 Bele, Marjan D2-H-MON-PM2 Belkacemi, Lisa D9-0-TUE-PM1 Belkacemi, Lisa D9-0-TUE-PM1 Belkessa, Brahim B10-P-TUE-P1-4 Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-0-TUE-PM2 Bellanger, Pierre E3-0-TUE-PM2 Bellas, Illias B1-0-TUE-AM2 Bellis, Mateo C11-0-THU-PM2-9 Bellid, Mateo C11-0-THU-P2-9 Bellido, Elena F3-0-THU-P1 Bellouderd, Ves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FTHU-P2-4, Belyakov, Andrey B4-0-THU-PM2, B4-P-THU-P2-3, C10-PTHU-P2-3, C10-PTHU-P2-3, C10-PTHU-P2-3, C10-PTHU-P2-3, C10-PTHU-P2-3, BEN FRAJ, Boutheina B11-0-MON-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Beneck, Peter | Beladi, Hossein | B1-H-TUE-PM1, |
| Bete, krat B6-0-TUE-PM1 Bete, Marjan D2-H-MON-PM2 Beteniotis, Petros C11-0-THU-PM2 Betkacemi, Lisa D9-0-TUE-PM1 Betkessa, Brahim C6-P-TUE-P1-3, B10-P-TUE-P1-4, B10-P-TUE-P1-4 Betla, Federico A7-II-P-THU-P2-24 Betlanger, Pierre E3-0-TUE-PM2 Betladesa, Renato A6-0-FRI-AM2 Betlas, Ittias B1-0-TUE-AM2 Betlas, Ittias B1-0-TUE-AM2 Betlido, Elena F3-0-THU-P2-9 Betlido, Elena F3-0-THU-PM1 Betlouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 Belyakov, Andrey B3-0-MON-PM2, C10-P-THU-P2-3, C10-P-THU-P2-3, C10-P-THU-P2-3, C10-H-THU-PM1, B4-D-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-WON-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Mariem B10-0-WED-PM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE | Belamie, Emmanuel | • |
| Bele, Marjan | Bele, Eral | |
| Beleniotis, Petros C11-O-THU-PM2 Belkacemi, Lisa D9-O-TUE-PM1 Belkessa, Brahim C6-P-TUE-P1-3, B10-P-TUE-P1-4 Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-O-TUE-PM2 Bellanger, Pierre E3-O-TUE-PM2 Bellarosa, Renato A6-O-FRI-AM2 Bellas, Illias B1-O-TUE-AM2 Bellis, Matteo C11-O-THU-AM2 C11-P-THU-P2-9 C11-O-THU-AM2 Bellido, Elena F3-O-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-O-FRI-PM1 Belmonte, Thierry C1-O-FRI-AM2 Ba3-O-MON-PM2, C10-P-THU-P2-4, B4-O-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-O-WED-PM2 BEN FRAJ, Boutheina B11-O-MON-PM2 BEN FRAJ, Boutheina B11-O-MON-PM2 Ben Saada, Fatma B10-O-WED-PM2 Ben Saada, Fatma B10-O-WED-AM2 Ben Saada, Fatma B10-O-WED-AM2 Benabadji, Mostafa Kerim B9-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-1-3 Benedetti, Francesco D1-O-TE-PM2, D1-P-TUE-P1-1- | | |
| Belkacemi, Lisa Belkessa, Brahim Belkessa, Brahim C6-P-TUE-P1-3, B10-P-TUE-P1-4 Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-0-TUE-PM2 Bellarosa, Renato A6-0-FRI-AM2 Bellas, Illias B1-0-TUE-AM2 Bellis, Matteo C11-0-THU-P2-9 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Bellmonte, Thierry C1-0-FRI-AM2 B8-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2 Belyakov, Andrey B9-0-TUE-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 BEN Saada, Fatma B10-0-WED-M2 Ben Saada, Mariem B11-0-WED-M2 Benabadji, Mostafa Kerim Benabadji, Mostafa Kerim Benderti, Francesco D1-0-TUE-P1-2, D8-P-TUE-P1-1, D8-P-TUE-P1-17 Benevides, Rodrigo Benabad, Manuel B1-0-TUE-PM1 Benabad, Hamed B1-0-TUE-PM1 Benabad, Hamed B1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-PM1 Benedetti, Francesco D1-0-TUE-P1-17 Benevides, Rodrigo B1-0-TUE-P1-17 Benevides, Rodrigo B1-0-TUE-P1-18 Benedetti, Francesco D1-0-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Benender, Mohamed Al Amine B7-P-TUE-P1-16 Benerit, PO-WED-PM1 Ben-Hamu, Guy B1-0-TUE-P1-6 Benito-Alfonso, Miguel B1-0-WED-PM1 B7-P-TUE-P1-6 Benito-Alfonso, Miguel B1-P-THU-P2-3, B1-0-TUE-P1-6 Bennett, Thomas B7-0-WED-PM1 B7-P-THU-P2-3 Benouis, Bornia C4-P-THU-P2-3 | | |
| Belkessa, Brahim C6-P-TUE-P1-3, B10-P-TUE-P1-4 Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-0-TUE-PM2 Bellarosa, Renato A6-0-FRI-AM2 Bellas, Illias B1-0-TUE-AM2 Bellis, Matteo C11-0-THU-P2-9 Belli, Matteo C11-0-THU-P2-17 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-3, C10-P-THU-P2-4, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM2, B4-0-THU-PM1, B4-0-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Ben Saada, Fatma B10-0-WED-PM2 Benabadji, Mostafa Kerim B9-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Benderti, Francesco D1-0-TUE-PM2 Bengdetti, | • | |
| Bella, Federico A7-II-P-THU-P2-24 Bellanger, Pierre E3-0-TUE-PM2 Bellarosa, Renato A6-0-FRI-AM2 Bellas, Illias B1-0-TUE-AM2 Bellis, Mitchel C3-P-THU-P2-9 Belli, Matteo C11-0-THU-AM2, C11-P-THU-P2-17 Bellido, Elena F3-0-THU-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-4, B4-0-THU-P2-4, B4-0-THU-P2-3, C10-P-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem B10-0-WED-AM2 Ben Saada, Mariem B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-3 Bencok, Peter A8-0-MON-PM1 Benderti, Francesco D1-0-TUE-PM2, D1-P-TUE-P1-17 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Benphucine, Mohamed Al Amine< | | |
| Bellanger, Pierre E3-0-TUE-PM2 Bellarosa, Renato A6-0-FRI-AM2 Bellas, Illias B1-0-TUE-AM2 BELLET, Michel C3-P-THU-P2-9 Belli, Matteo C11-0-THU-AM2, C11-P-THU-P2-17 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Bellmonte, Thierry C1-0-FRI-AM2 Belyakov, Andrey B4-0-THU-P2-4, B4-0-THU-P2-3, C10-P-THU-P2-4, B4-0-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 BEN Saada, Fatma B10-0-WED-PM2 Ben Saada, Mariem B11-0-WED-PM2 Ben Sada, Mariem B11-0-WED-PM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Benderti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Benghuzzi, Hamed F1-0-TUE-AM2 Bengoechea, Miguel E2-0-MON-PM1 Benhacine, Mohamed Al Amine B7-P-THU-P2-4 Ben-Hamu, Guy B10-P-TUE-P1-6 Benito-Alfonso, Miguel B1-P-TUE-P1-6 Benito-Alfonso, Miguel B1-P-TUE-PM2 Bennett, Robbie J D2-H-THU-P2-3 Benouts, Bornia C4-P-THU-P2-3 Benouts, Bornia C4-P-THU-P2-3 Benouts, Bornia C4-P-THU-P2-3 | | |
| Bellarosa, Renato A6-0-FRI-AM2 Bellas, Illias B1-0-TUE-AM2 BELLET, Michel C3-P-THU-P2-9 Belli, Matteo C11-0-THU-AM2 C11-P-THU-P2-17 C11-P-THU-P2-17 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 B1-0-MON-PM2 C10-P-THU-P2-4, C10-P-THU-P2-4, C10-P-THU-P2-3, C10-H-THU-PM1 C10-WED-PM2 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem B10-0-WED-AM2 Ben Saada, Mariem B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, Benevide, Rerius C1-I/K-WED-PM1 Bendert, Francesco D1-0-TUE-P1-13 Benedetti, Francesco D1-0-TUE-PM1, Benedetti, Francesco D1-0-TUE-PM1, Benedetti, Francesco D1-0-TUE-PM2 | | |
| Bellas, Ilias B1-0-TUE-AM2 BELLET, Michel C3-P-THU-P2-9 Belli, Matteo C11-0-THU-AM2, C11-P-THU-P2-17 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2, C10-P-THU-PP2-4, C10-P-THU-PP2-4, C10-P-THU-PP2-3, C10-P-THU-PP2-3, C10-H-THU-PM1, E4-P-THU-PP2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN HAJ SLAMA, Meriem B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem D8-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Benderti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Bengoechea, Miguel E2-0-MON-PM1 Benpacine, Mohamed Al Amine B7-P-THU-P2-4 Ben-Hamu, Guy B10-P-TUE-P1-6 Benito-Alfonso, Miguel B10-P-TUE-P1-6 Benito-Robie J D2-H-THU-P2-3, B10-P-TUE-PM2 Bennett, Robbie J D2-H-THU-P2-3 Benoit, Virginie B7- | | |
| BELLET, Michel C3-P-THU-P2-9 Belli, Matteo C11-0-THU-AM2, C11-P-THU-P2-17 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-M2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1, B4-P-THU-P2-3, C10-H-THU-PM1 B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 BEN HAJ SLAMA, Meriem B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem D9-0-TUE-PM2, B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE-P1-3, D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P11-17 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benedetna, Miguel E2-0-MON-PM1 Benedetna, Miguel E2-0-MON-PM1 Benhacine, Mohamed Al Amine B7-P-THU-P2-4 Ben-Hamu, Guy B10-P-TUE-P1-6 Benito-Alfonso, Miguel B1-0-TUE-PM2, B10-P-TUE-PM | | |
| Belli, Matteo C11-0-THU-AM2, C11-P-THU-P2-17 Bellido, Elena F3-0-THU-PM1 Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-4, B4-0-THU-P2-3, C10-H-THU-PM1, B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem D9-0-TUE-PM2, B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE-P1-3 Bencok, Peter A8-0-MON-PM1 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Bengoechea, Miguel E2-0-MON-PM1 Benhacine, Mohamed Al Amine B7-P-THU-P2-4 Ben-Hamu, Guy B10-P-TUE-P1-6 Benito-Alfonso, Miguel B10-P-TUE-P1-6 Bennett, Robbie J D2-H-THU-AM2 Bennett, Thomas B7-O-WED-PM1, B7-P-THU-P2-3 <t< td=""><td></td><td></td></t<> | | |
| Bellido, Elena F3-0-THU-PHI Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-4, B4-P-THU-P2-3, C10-H-THU-PP4-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN FRAJ, Boutheina B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem B10-0-WED-AM2 Ben Saada, Mariem D8-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-3, D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Benderti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Benghuzzi, Hamed F1-0-TUE-AM2 Bengoechea, Miguel E2-0-MON-PM1 Benhacine, Mohamed Al Amine B7-P-THU-P2-4 Benito-Alfonso, Miguel B1-P-THU-P2-3, B1-0-TUE-PM2 Benito-Alfonso, Miguel B1-P-THU-P3, B1-0-TUE-PM2 Bennett, Robbie J D2-H-THU-AM2 Bennett, Thomas B7-O-WED-PM1, B7-P-THU-P2-2 Benoit, Virginie B7-O-THU-P2-3 Beno | | |
| Bellouard, Yves C2-I/K-MON-PM1 Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 Bay-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN BAJ SLAMA, Meriem B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem D9-0-TUE-PM2, B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Benderti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Benghuzzi, Hamed F1-0-TUE-AM2 Bengoechea, Miguel E2-0-MON-PM1 Benhacine, Mohamed Al Amine B7-P-THU-P2-4 Ben-Hamu, Guy B10-P-TUE-P1-6 Benito-Alfonso, Miguel B10-P-TUE-P1-6 Benmore, Chris J. D3-0-WED-PM1 Bennett, Robbie J D2-H-THU-P2-2 Bennett, Thomas B7-0-WED-PM1, B7-P-THU-P2-2 Benoit, Virginie B7-0-THU-P2-3 Benoits, Bornia C4-P-THU- | | |
| Belmonte, Manuel C3-0-FRI-PM1 Belmonte, Thierry C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-4, B4-0-THU-P2-3, C10-H-THU-PM1, B4-0-THU-P2-3, C10-H-THU-PM1 B4-0-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN HAJ SLAMA, Meriem B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem D9-0-TUE-PM2, B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE-P1-3 Bencok, Peter A8-0-MON-PM1 Bendert, Marcus C1-I/K-WED-PM1 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Benghuzzi, Hamed F1-0-TUE-AM2 Bengoechea, Miguel E2-0-MON-PM1 Ben-Hamu, Guy B2-0-FRI-AM2, B10-P-TUE-P1-6 Ben-Hamu, Guy B1-P-THU-P2-4 Bennett, Alfonso, Miguel B1-P-THU-P2-3, B1-0-TUE-PM2 Bennett, Robbie J D2-H-THU-AM2 Bennett, Thomas B7-0-WED-PM1, B7-P-THU-P2-2 Benouit, Virginie B7-0-THD-P2-3 Benouits, Bornia C4-P-THU-P2-5 <td></td> <td></td> | | |
| Belmonte, Thierry C1-0-FRI-AM2 B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-4, B4-0-THU-P2-3, C10-H-THU-PM1, B4-0-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN HAJ SLAMA, Meriem B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem D9-0-TUE-PM2, B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Benevides, Rodrigo D10-0-THU-PM2 Benghuzzi, Hamed F1-0-TUE-AM2 Bengoechea, Miguel E2-0-MON-PM1 Benhacine, Mohamed Al Amine B7-P-THU-P2-4 Ben-Hamu, Guy B1-P-THU-P2-4 Ben-Hamu, Guy B1-P-THU-P2-3, B1-0-TUE-PM2 Bennett, Alfonso, Miguel B1-P-THU-P2-3, B1-0-TUE-PM2 Bennett, Robbie J D2-H-THU-AM2 Bennett, Thomas B7-0-WED-PM1, B7-P-THU-P2-2 Benouis, Bornia C4-P-THU-P2-5 | | |
| B3-0-MON-PM2, C10-P-THU-P2-4, B4-0-THU-P2-4, B4-0-THU-P2-4, B4-0-THU-P2-3, C10-H-THU-P2-3, C10-H-THU-P2-3, C10-H-THU-PM1 | | |
| Belyakov, Andrey C10-P-THU-P2-4, B4-0-THU-P2-3, C10-H-THU-PM2, B4-P-THU-P2-3, C10-H-THU-PM1 Ben Daly, Hachmi D10-0-WED-PM2 BEN FRAJ, Boutheina B11-0-MON-PM2 BEN HAJ SLAMA, Meriem B11-0-WED-PM2 Ben Saada, Fatma B10-0-WED-AM2 Ben Saada, Mariem B9-0-TUE-PM2, B10-0-WED-AM2 Benabadji, Mostafa Kerim D8-P-TUE-P1-2, D8-P-TUE-P1-2, D8-P-TUE-P1-13 Bencok, Peter A8-0-MON-PM1 Bender, Marcus C1-I/K-WED-PM1 Benedetti, Francesco D1-0-TUE-PM1, D1-P-TUE-P1-17 Beneyides, Rodrigo D10-0-THU-PM2 Benghuzzi, Hamed F1-0-TUE-AM2 Bengoechea, Miguel E2-0-MON-PM1 Ben-Hamu, Guy B2-0-FRI-AM2, B10-P-TUE-P1-6 Ben-Hamu, Guy B1-P-THU-P2-4 Ben-Hamu, Guy B1-P-THU-P2-3, B1-0-TUE-PM2 Benmore, Chris J. D3-0-WED-PM1 Bennett, Robbie J D2-H-THU-AM2 Bennett, Thomas B7-0-WED-PM1, B7-P-THU-P2-2 Benouit, Virginie B7-0-WED-PM1, B7-P-THU-P2-3 Benouits, Bornia C4-P-THU-P2-5 | bethone, meny | |
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| Biniskos, Nikolaos | A8-P-TUE-P1-1, | Bochvar, Natalia | B4-0-THU-AM2 | bosbacii, bjoiii | D1-0-TUE-PM1, |
| | H1-O-TUE-PM1 | | C1-O-THU-AM2, B6-P-TUE-P1-29, | Boscherini, Federico | D1-P-TUE-P1-9, |
| Binti Abdul Hamid, Zalikha Murni | E6-O-THU-PM2 | Boczkowska, Anna | H3-P-TUE-P1-2, | | D1-P-TUE-P1-25 |
| Birbilis, Nick | B2-O-THU-AM2, B4-H-THU-PM2 | | H3-P-TUE-P1-3 | Boscherini, Federico | D1-P-TUE-P1-17 |
| Birghoff, Birger | E3-P-TUE-P1-10 | Bodelot, Laurence | B6-O-WED-AM2, A3-O-MON-AM2 | Bosia, Federico | F6-0-FRI-AM2 |
| J - 7 - J - | B2-O-THU-PM1, | Bodoardo, Silvia | E2-0-M0N-PM1 | Bosman, Anthony | B6-O-TUE-PM1 |
| Birosca, Soran | B11-0-M0N-AM2, | Boehler, Reinhard | D3-O-WED-PM1 | Bosse, Stefan | E6-O-FRI-AM2 |
| | B3-O-WED-PM1, B3-O-WED-PM1 | Boeije, Maurits | H1-H-TUE-PM1 | Botas , Juan Angel | B7-0-THU-PM2 |
| Birrozzi, Agnese | E2-O-MON-PM1 | Boellinghaus, Thomas | B10-P-TUE-P1-12 | Botsiou, K.N. | F3-P-THU-P2-1 |
| Bischoff, Lothar | C11-O-THU-AM2 | Boer, Juergen | A9-H-FRI-PM1 | Botsiou, Konstantina | D2-P-TUE-P1-10 |
| • | E4-0-TUE-PM2, | Boettcher, Lars | C9-O-THU-PM1 | Botta, W.J. | E1-0-TUE-PM2 |
| Bisson, R. | E4-P-THU-P2-12 | Boffito, Monica | F2-O-WED-AM2 | Bottega Peripolli , Suzana | B1-P-THU-P2-9 |
| Biswas, A. | D1-P-TUE-P1-16 | Bogachev, Aleksei | E4-0-WED-AM2 | Bottega Peripolli, Suzana | A1-P-THU-P2-3 |
| Bittencourt, Carla | A1-O-FRI-PM1, | Bogno, Abdoul-Aziz | B2-O-THU-PM2 | Bottger, Amarante | E1-P-TUE-P1-7 |
| · | A1-0-FRI-PM1 | | B2-I/K-WED-AM2, | Botton, Gianluigi | D2-O-WED-AM2 |
| Bittner, Alexander | F3-P-THU-P2-2 | Bohlen, Jan | B11-P-TUE-P1-15 | Bouacida, Sofiane | B7-P-THU-P2-4 |
| Bizhigitov, T. | E3-P-TUE-P1-16 | Bohne, Rolf André | A7-I-P-TUE-P1-23 | Boudjada, Ali | D1-P-TUE-P1-12 |
| Sjørheim, Tor | E3-P-TUE-P1-7 | Bohnstedt, Angelika | D9-O-MON-AM2 | Boudouvis, Andreas G. | D10-0-THU-PM1 |
| Sjörkas, C. | E4-P-THU-P2-8 | Boismain, Florent | E2-O-MON-PM2 | Boukenter, Aziz | C11-P-THU-P2-10 |
| Bjørnetun Haugen, Astri | E3-H-MON-PM2 | Boisselier, Dider | C4-0-THU-PM2 | Boukos, Nikos | A7-0-THU-AM2, D2-P-TUE-P1-18, |
| Blackwell, Paul | B11-0-THU-AM2 | Boizot, Bruno | D10-0-FRI-AM2 | | C11-P-THU-P2-12 |
| Blahova, Lucie | C1-II-P-THU-P2-6 | Bojarevics, Valdis | C8-O-FRI-AM2 | Boulaméry, Audrey | A7-II-P-THU-P2-5 |
| Blair, Victoria | H1-O-TUE-PM1 | Bojestig, Eric | C4-P-THU-P2-10 | Boulard, Eglantine | D3-O-THU-AM2 |
| BLANC, Cecile | C2-O-TUE-PM1 | Bojić, Aleksandar | B6-P-TUE-P1-26 | Boullay, Philippe | D2-O-TUE-AM2 |
| Blanco, Eduardo | E3-P-TUE-P1-1 | Bojić, Danijela | B6-P-TUE-P1-26 | Bounos, Giannis | E3-0-III-AM2 |
| Blanco, Juan Maria | H1-H-M0N-PM1 | Bokuniaeva, Aleksandra | D2-P-TUE-P1-24 | Boura-Theodoridou, Olga | A3-0-M0N-PM2 |
| Blanco, Maria | D1-P-TUE-P1-6, D1-P-TUE-P1-11 | Roldin Makeim | B5-O-TUE-AM2, | Bourazani, Dimitra | A8-P-TUE-P1-3 |
| Blanco-Becares, José Miguel | F1-P-TUE-P1-3 | Boldin, Maksim | B5-P-TUE-P1-20, B6-P-TUE-P1-30 | Bourbos, Evangelos | H2-O-TUE-AM2 |
| Blanco-Prieto, Maria | F2-O-WED-AM2 | Boleininger, Max | D10-II-P-THU-P2-2 | Bourdon, Rainer | B6-P-TUE-P1-9 |
| Blandin, Jean-Jacques | C9-O-THU-PM1 | Bolimowski, Patryk | B6-P-TUE-P1-29 | Bourgon, Julie | B8-O-THU-AM2 |
| BLANDIN, Jean-Jacques | D4-0-M0N-PM1 | Bolis, Karen | F6-P-THU-P2-1 | Bourlet, Frédérique | D9-O-MON-PM2 |
| Blanko, Javier | A5-O-WED-PM2 | Boller, Elodie | D1-O-THU-PM1 | Bourlinos, Athanasios | A1-0-FRI-PM1 |
| | .10 O HED I I'IZ | Boller, Elodie | C6-O-MON-PM1 | | C11-P-THU-P2-1, |
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| · | F2-P-THU-P2-6, | Brooker, Richard | D1-P-TUE-P1-7 | Bürger, David | B3-0-M0N-AM2 |
| Boutsika, Lamprini | E2-P-TUE-P1-8 | Brousse, Thierry | E2-O-WED-AM2 | Burgess, Tim | E3-P-TUE-P1-12 |
| Boutsika, Lamprini | A3-P-TUE-P1-11 | Brown, A.P. | F1-0-TUE-AM2 | Burk, Laura | A7-0-WED-PM1 |
| Bouvard, Jean-Luc | D6-O-FRI-PM1 | Brown, C.T.A | F1-0-TUE-AM2 | Burke, Grace | B7-P-THU-P2-12 |
| Bouvier, Salima | C6-O-MON-AM2 | Brown, Craig M. | B5-0-TUE-PM1 | Burkhart, Mathias | C4-O-WED-AM2 |
| Bouzakis, Emmanouil | C9-I/K-THU-II2 | Brown, Paul | D2-P-TUE-P1-7 | Burkov, Alexander | E3-H-TUE-PM1 |
| Bouzakis, Konstantinos-Dionysios | C9-I/K-THU-⊞2, C9-H-THU-AM2, | Brown, Stephen G.R. | B8-O-THU-PM2 | Burnett, Timothy | D1-0-THU-PM1, |
| | C9-P-THU-P2-9 | Brown, Tom | A5-O-WED-PM2, A5-O-MON-PM1 | Buršík, Ondřej | B10-0-TUE-AM2 E4-P-THU-P2-9 |
| Bouzehouane, K. | A8-O-MON-PM1 | | A5-P-TUE-P1-5, | Busacca, Concetta | E2-0-MON-AM2 |
| Bouzouni, Marianthi | C7-O-TUE-PM2, B1-O-WED-AM2, | Brown, Tom | A5-P-TUE-P1-7 | Busacca, Concetta | E2-0-TUE-AM2 |
| | B1-0-TUE-PM2 | Brubach, Jean-Blaise | D3-I/K-WED-AM2 | Buscaino, Roberto | A7-II-P-THU-P2-25 |
| Bowen, Paul | D10-I-P- TUE-P1-11, D10-II- | Bruce, Peter | E2-I/K-MON-PM1 | Bushlya, Volodymyr | C9-O-THU-AM2 |
| Bower, raac | P-THU-P2-4 | Bruck, Ekkes | H1-H-TUE-PM1 | Busqué, Félix | F3-0-WED-PM2 |
| Boyce, Brad | B10-0-TUE-AM2 | Brück, Ekkes | D1-O-TUE-PM2, B1-O-FRI-PM1 | | E6-P-THU-P2-2, |
| BOYER, Quentin | C1-O-THU-PM2 | Brückner-Foit, Angelika | B10-0-M0N-PM2 | Busse, Matthias | E6-O-FRI-AM2, C4-O-FRI-PM1 |
| Bozin, Emil | A2-H-WED-PM2 | Bruder, Enrico | B4-I/K-THU-AM2 | Bussmann-Holder, Annette | A8-0-M0N-AM2 |
| Bozzo, Bernat | A2-H-WED-PM1 | Brueckel, Thomas | H1-0-TUE-PM1 | Butrim, Viktor | B3-O-MON-PM2 |
| Bozzolo, Nathalie | D10-H-WED-PM2, D10-I-P-TUE-P1-5 | Brühl, Sonia | B10-0-WED-AM2 | Buzatu, Mihai | H2-P-TUE-P1-5 |
| Bracq, Guillaume | B8-I/K-WED-AM2 | Brühl, Sonja | B1-0-TUE-PM1 | Byggmästar, Jesper | D9-O-WED-PM1 |
| Bradu, Corina | E1-P-TUE-P1-3 | Brunaccini, Giovanni | E2-0-M0N-AM2 | Byl, Céline | A7-II-P-THU-P2-7 |
| Braendle, Andreas | A3-O-MON-PM2 | Bruncko, Mihael | C8-O-THU-PM2 | C | |
| Braglia, Luca | B7-O-FRI-AM2, | Brunckova, Helena | B5-P-TUE-P1-19 | C. Malheiros , Lívia Raquel | B1-0-FRI-AM2 |
| Diagua, Euca | D1-P-TUE-P1-24 | Brunelli, Katya | A5-O-TUE-AM2, C1-O-FRI-AM2 | C. Romani, Eric | A1-P-THU-P2-3 |
| Braglia, Michele | E2-O-WED-AM2, E2-P-TUE-P1-11 | BRUNO, EMANUELA | E2-P-TUE-P1-16 | Caballero, F. G. | B1-0-WED-PM1 |
| Brailovski, Vladimir | C10-H-WED-AM2 | Bruschi, Stefania | C9-O-THU-PM2 | Caballero, Francisca G. | B1-O-WED-PM1, B1-P-THU-P2-3, |
| Bran, Christina | A2-P-THU-P2-10 | Brust, Mathias | A5-H-MON-PM2 | Cabattero, Francisca O. | B11-0-M0N-AM2 |
| Brand, Uwe | D2-P-TUE-P1-12 | | E2-P-TUE-P1-1, | Caballero, Raquel | E3-0-WED-PM1 |
| Brandao, Ana | C4-O-WED-PM1 | Brutti, Sergio | E2-P-TUE-P1-4, E2-0-M0N-PM1, | Cabana, Laura | E2-0-TUE-PM2 |
| Brandenburg, Jan Gerit | B7-0-THU-PM1 | | E2-P-TUE-P1-5 | Cabañas, M. Victoria | F2-O-WED-PM1 |
| Brandl, Christian | D10-O-WED-PM1 | Brutti, Sergio | E2-P-TUE-P1-8 | Cabedo, Luis | G1-P-TUE-P1-1 |
| Brant de Campos , José | B1-P-THU-P2-9 | Bruyère, Stéphanie | C1-O-MON-PM1 | Cabet, Celine | D9-O-MON-AM2 |
| | | | | | |
| Brant de Campos, Jose | F4-P-TUE-P1-3, Δ1-P-THII-P2-3 | Bryla, Krzysztof | C10-0-THU-PM2 | Cabezas, V. A. | XXX |
| | A1-P-THU-P2-3 | Bryla, Krzysztof Brysbaert, Gauthier | C10-0-THU-PM2 D10-0-FRI-AM2 | Cabié, Martiane | E4-0-TUE-PM2 |
| Brant de Campos, Jose Brasinika, Despoina Bratberg, Johan | | Brysbaert, Gauthier Bu, Huaitian | D10-0-FRI-AM2 A7-II-P-THU-P2-23 | | E4-0-TUE-PM2 D2-0-WED-AM2 |
| Brasinika, Despoina | A1-P-THU-P2-3 F3-P-THU-P2-6 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 | Cabié, Martiane | E4-0-TUE-PM2 |
| Brasinika, Despoina Bratberg, Johan | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily | D10-O-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-O-FRI-AM2 | Cabié, Martiane | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 | Cabié, Martiane Cabioc'h, Thierry | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchetnikov, Vasily Bucher, Edith Buchholz, Bruce | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 | Cabié, Martiane Cabioc'h, Thierry Cabot, Andreu | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 B1-I/K-THU-AM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John | D10-O-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-O-FRI-AM2 E1-H-TUE-AM2 D1-O-WED-PM2 E2-O-MON-AM2 E1-O-TUE-PM1 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian Brennan, Raymond Brescia , Rosaria Brescia, Rosaria | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-0-TUE-PM1 F6-0-FRI-AM2 B1-I/K-THU-AM2 H1-0-TUE-PM1 B5-0-TUE-PM1 A5-0-MON-AM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-PM1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian Brennan, Raymond Brescia, Rosaria Brescia, Rosaria Bresser, Dominic | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-0-TUE-PM1 F6-0-FRI-AM2 B1-I/K-THU-AM2 H1-0-TUE-PM1 B5-0-TUE-PM1 A5-0-MON-AM2 E2-0-MON-PM1 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław Budd, Peter M. | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-PM1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel Brety, Lucas Bremen, Sebastian Brennan, Raymond Brescia , Rosaria Bresser, Dominic Breuer, Ulf P. | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 B1-I/K-THU-AM2 H1-O-TUE-PM1 B5-O-TUE-PM1 A5-O-MON-AM2 E2-O-MON-PM1 E6-O-THU-PM1 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław Budd, Peter M. Bueken, Bart | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 A9-0-FRI-PM1 B7-0-FRI-AM2, B7-0-WED-PM1 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario Cacciamani, G. | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 C5-0-FRI-AM2 |
| Brasinika, Despoina Bratherg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian Brennan, Raymond Brescia , Rosaria Bresser, Dominic Breuer, Ulf P. Brewer, Luke N. | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 B1-I/K-THU-AM2 H1-O-TUE-PM1 B5-O-TUE-PM1 A5-O-MON-AM2 E2-O-MON-PM1 E6-O-THU-PM1 B10-O-TUE-PM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchetnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław Budd, Peter M. Bueken, Bart Bueno-Alejo, Carlos | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 A9-0-FRI-PM1 B7-0-FRI-AM2, B7-0-WED-PM1 A1-0-THU-PM2 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-PM1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 |
| Brasinika, Despoina Bratherg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian Brennan, Raymond Brescia, Rosaria Brescia, Rosaria Bresser, Dominic Breuer, Ulf P. Brewer, Luke N. Briatico Vangosa, Francesco | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 B1-I/K-THU-AM2 H1-O-TUE-PM1 B5-O-TUE-PM1 A5-O-MON-AM2 E2-O-MON-PM1 E6-O-THU-PM1 B10-O-TUE-PM2 D4-O-TUE-AM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bučko, Mirosław Budd, Peter M. Bueken, Bart Bueno-Alejo, Carlos Bufford, Daniel | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 A9-0-FRI-AM2, B7-0-WED-PM1 A1-0-THU-PM2 B10-0-TUE-AM2 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario Cacciamani, G. | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-PH1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 C5-0-FRI-AM2 C5-P-THU-P2-14 A5-H-TUE-PM2, E3-0-MON-PM1, |
| Brasinika, Despoina Bratherg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian Brennan, Raymond Brescia, Rosaria Brescia, Rosaria Bresser, Dominic Breuer, Ulf P. Brewer, Luke N. Briatico Vangosa, Francesco Briddon, Patrick | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 B1-I/K-THU-AM2 H1-O-TUE-PM1 A5-O-MON-AM2 E2-O-MON-PM1 E6-O-THU-PM1 B10-O-TUE-PM2 D4-O-TUE-AM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław Budd, Peter M. Bueken, Bart Bueno-Alejo, Carlos Bufford, Daniel Bugajska, Monika | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 A9-0-FRI-PM1 B7-0-FRI-AM2, B7-0-WED-PM1 A1-0-THU-PM2 B10-0-TUE-AM2 E2-P-TUE-P1-14 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario Cacciaamani, G. Cacciamani, Gabriele | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-PH1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 C5-0-FRI-AM2 C5-P-THU-P2-14 A5-H-TUE-PM2, E3-0-MON-PM1, A7-0-TUE-PM1 |
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| Brasinika, Despoina Bratherg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian Brennan, Raymond Brescia, Rosaria Bresser, Dominic Breuer, Ulf P. Brewer, Luke N. Briatico Vangosa, Francesco Briddon, Patrick Bridges, Craig | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 B1-I/K-THU-AM2 H1-O-TUE-PM1 B5-O-TUE-PM1 A5-O-MON-AM2 E2-O-MON-PM1 E6-O-THU-PM1 B10-O-TUE-PM2 D4-O-TUE-AM2 D2-O-WED-AM2 H1-H-MON-PM2 C6-O-TUE-PM1 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław Budd, Peter M. Bueken, Bart Bueno-Alejo, Carlos Bufford, Daniel Bugajska, Monika Bugelnig, Katrin Bugnet, Matthieu Bugrov, Vladislav | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-M0N-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 A9-0-FRI-AM2, B7-0-WED-PM1 A1-0-THU-PM2 B10-0-TUE-AM2 E2-P-TUE-P1-14 D1-P-TUE-P1-10 D2-0-WED-AM2 A7-0-THU-PM2 | Cabie, Martiane Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario Cacciaamani, G. Cacciamani, Gabriele | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 C5-0-FRI-AM2 C5-P-THU-P2-14 A5-H-TUE-PM1, A7-0-TUE-PM1 B2-0-WED-PM2, D1-0-WED-PM1, B2-0-WED-PM1, B2-0-WED-PM2, D1-0-WED-PM1, |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel Bretly, Lucas Bremen, Sebastian Brennan, Raymond Brescia , Rosaria Brescia, Rosaria Brescer, Dominic Breuer, Ulf P. Brewer, Luke N. Briatico Vangosa, Francesco Briddon, Patrick Bridges, Craig Bridier, Florent Brie, Joel | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-0-TUE-PM1 F6-0-FRI-AM2 B1-I/K-THU-AM2 H1-0-TUE-PM1 A5-0-MON-AM2 E2-0-MON-PM1 E6-0-THU-PM1 B10-0-TUE-PM2 D4-0-TUE-AM2 D2-0-WED-AM2 H1-H-MON-PM2 C6-0-TUE-PM1 F5-H-FRI-AM2 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław Budd, Peter M. Bueken, Bart Bueno-Alejo, Carlos Bufford, Daniel Bugajska, Monika Bugelnig, Katrin Bugnet, Matthieu | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-M0N-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 A9-0-FRI-AM2, B7-0-WED-PM1 A1-0-THU-PM2 B10-0-TUE-AM2 E2-P-TUE-P1-10 D2-0-WED-AM2 | Cabioc'h, Thierry Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario Cacciamani, G. Cacciamani, Gabriele Cadavid, Doris | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 C5-0-FRI-AM2 C5-P-THU-P2-14 A5-H-TUE-PM2, E3-0-MON-PM1, A7-0-TUE-PM1 B2-0-WED-PM2, D1-0-WED-PM1, B2-0-WED- |
| Brasinika, Despoina Bratberg, Johan Braun, Ulrike Bravo, Pedro Miguel Brely, Lucas Bremen, Sebastian Brennan, Raymond Brescia , Rosaria Brescia, Rosaria Brescer, Dominic Breuer, Ulf P. Brewer, Luke N. Briatico Vangosa, Francesco Briddon, Patrick Bridges, Craig Bridier, Florent Brie, Joel Briez, Louise | A1-P-THU-P2-3 F3-P-THU-P2-6 D5-H-FRI-AM2 A9-P-THU-P2-1 B2-O-TUE-PM1 F6-O-FRI-AM2 B1-I/K-THU-AM2 H1-O-TUE-PM1 B5-O-TUE-PM1 A5-O-MON-AM2 E2-O-MON-PM1 E6-O-THU-PM1 B10-O-TUE-PM2 D4-O-TUE-AM2 D2-O-WED-AM2 H1-H-MON-PM2 C6-O-TUE-PM1 F5-H-FRI-AM2 B2-O-MON-PM1 | Brysbaert, Gauthier Bu, Huaitian Buchelnikov, Vasiliy Buchelnikov, Vasily Bucher, Edith Buchholz, Bruce Buchholz, Daniel Buckeridge, John Bućko, Mirosław Budd, Peter M. Bueken, Bart Bueno-Alejo, Carlos Bufford, Daniel Bugajska, Monika Bugelnig, Katrin Bugnet, Matthieu Bugrov, Vladislav Buhagiar, Joseph | D10-0-FRI-AM2 A7-II-P-THU-P2-23 D8-P-TUE-P1-7 D8-0-FRI-AM2 E1-H-TUE-AM2 D1-0-WED-PM2 E2-0-MON-AM2 E1-0-TUE-PM1 B5-P-TUE-P1-10 A9-0-FRI-AM2, B7-0-WED-PM1 A1-0-THU-PM2 B10-0-TUE-AM2 E2-P-TUE-P1-14 D1-P-TUE-P1-10 D2-0-WED-AM2 A7-0-THU-PM2 C4-P-THU-P2-14 | Cabioc'h, Thierry Cabioc'h, Thierry Cabot, Andreu Cabrera, Jose Ma Caccamo, Sebastiano Caccia, Mario Caccia, Mario Cacciamani, G. Cacciamani, Gabriele Cadavid, Doris | E4-0-TUE-PM2 D2-0-WED-AM2 A5-H-TUE-PM2, E3-0-MON-PM1, A5-P-TUE-P1-1, A7-0-TUE-PM1, A5-0-WED-PM2, C4-P-THU-P2-6 B3-0-WED-PM2 C11-0-THU-AM2 B5-0-MON-AM2 B6-P-TUE-P1-12 C5-0-FRI-AM2 C5-P-THU-P2-14 A5-H-TUE-PM1, A7-0-TUE-PM1 B2-0-WED-PM2, D1-0-WED-PM1, B2-0-WED-PM1, B2-0-WED-PM2, D1-0-WED-PM1, |
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| Carbone, Alessandra | E2-O-TUE-PM2 | Caussat, Brigitte | C1-O-MON-PM2 | Chang, Isaac | C6-O-MON-PM1 |
| Carbone, Giuseppe | C2-H-TUE-AM2 E2-O-MON-PM1 | Cautaerts, Niels | E4-0-WED-PM1, | Chang, Robert | D1-O-WED-PM2 |
| Carboni, Marco Carbotte, Jules | D3-I/K-WED-AM2 | | E4-0-WED-PM1 | Chang, Zhongwen | D10-O-FRI-AM2 |
| Carbotte, Jules | | Cavalcante di Lello, Bruno | F4-P-TUE-P1-3 | Chantrell, Roy | A2-H-WED-PM2 |
| | RX-P-1HII-P7-5 | Cavalcante Pinto, Haroldo | B2-P-TUE-P1-14 | Chantrenne, Patrice | B1-O-FRI-AM2 |
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| Cardenia, Chiara | B6-P-TUE-P1-20 H2-0-M0N-AM2 | | C4-P-THU-P2-9, | | |
| Cardenia, Chiara Cardinal, Sandrine | B6-P-TUE-P1-20 H2-0-MON-AM2 B9-P-THU-P2-5 | Cavaleiro, André J. | C4-P-THU-P2-9, C4-O-WED-PM1 | Chapelle, David | E1-0-M0N-PM2 |
| Cardenia, Chiara Cardinal, Sandrine Cardona Usuga, Juan Andres | B6-P-TUE-P1-20 H2-0-MON-AM2 B9-P-THU-P2-5 F1-0-TUE-PM2 | Cavaleiro, André J. Cawkwell, Marc | C4-P-THU-P2-9, C4-O-WED-PM1 D10-O-FRI-PM1 | Chapelle, David Chapman, Gabriella | E1-0-MON-PM2 B3-0-TUE-AM2 |
| Cardenia, Chiara Cardinal, Sandrine Cardona Usuga, Juan Andres Cardoso, Laura | B6-P-TUE-P1-20 H2-0-MON-AM2 B9-P-THU-P2-5 F1-0-TUE-PM2 F6-0-FRI-PM1 | Cavaleiro, André J. Cawkwell, Marc Cazares Cortes, Esther | C4-P-THU-P2-9, C4-O-WED-PM1 D10-O-FRI-PM1 F2-O-WED-AM2 | Chapelle, David Chapman, Gabriella Chaput, Christophe | E1-O-MON-PM2 B3-O-TUE-AM2 F5-H-FRI-AM2 |
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| Chiapetto, Monica | D9-0-WED-AM2, D9-0-WED-AM2 |
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| Chichkov, Boris N. | C2-O-MON-PM2 |
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| Claverie, Alain | C11-O-FRI-PM1, | Correa-Duarte, Miguel A. | A5-H-TUE-PM1 | Cuartero, vera | D1-P-TUE-P1-18 |
| Claverie, Aldiii | C11-O-THU-AM2 | | E4-0-THU-AM2, | Cubuklusu, Emre | C8-P-THU-P2-10, C8-P-THU-P2-11 |
| Clemens, Helmut | B1-O-THU-AM2 | Correia, J.B. | E4-P-THU-P2-5 | | B11-P-TUE-P1-16, |
| Clemens, Helmut | C3-O-THU-PM1 | Cortés Ramos, Henry Octavio | B1-P-THU-P2-7 | Cuellar Burgos, Alneira | A3-P-TUE-P1-24 |
| Clemente, MJ | C2-O-MON-PM2 | Cortijo, Sandra | A1-P-THU-P2-5 | Cui, Jing | A7-H-TUE-PM2 |
| Climent-Pascual, Esteban | A1-H-FRI-PM1, A7-I-P-TUE-P1-7, | Costa, Ruben | B7-I/K-FRI-PM1 | Cui, Jun | H1-H-TUE-AM2 |
| | A7-II-P-THU-P2-9 | Coste, Frédéric | C4-O-WED-AM2 | Cui, Xiaoming | D2-P-TUE-P1-25 |
| Cloetens, Peter | D1-O-TUE-PM2, | Coster, Marc-Antony | B3-P-TUE-P1-9 | Cui, Yuwen | B2-0-TUE-AM2 |
| | B2-O-TUE-AM2 | Cotic, Jasna | F4-0-MON-PM1 | Cunha, Eunice | C1-O-TUE-PM2 |
| Clouet, Emmanuel | D8-O-THU-PM2 C9-O-FRI-PM1 | Cottenier, Stefaan | D9-P-TUE-P1-7, D8-O-WED-PM1 | Cupid, Damian | H1-I/K-MON-PM2, E2-O-TUE-AM2 |
| Cochet, Julien | | Cotton, Matthew | D3-O-WED-PM2 | Cupid, Damian Marlon | E2-0-NON-PM1 |
| Coolbo Luiz | D1-0-FRI-PM1 A3-P-TUE-P1-10 | Cottrino, Sandrine | F5-O-FRI-AM2 | Curcio, Stéphanie | C10-H-FRI-PM1 |
| Coelho, Luiz Coelho, Pamela | C3-P-THU-P2-1 | Cottura, Maeva | D8-O-THU-PM2 | Curd, Matthew | B10-0-TUE-AM2 |
| Coindeau, Stéphane | C1-O-MON-PM2 | Couedel, L. | E4-P-THU-P2-1 | Cure, Jérémy | A5-0-TUE-PM1 |
| Coïsson, Marco | A2-H-THU-PM1 | Couglan , Claudia | A5-H-WED-PM1 | Curfs, Caroline | C3-P-THU-P2-12 |
| Cojocaru Miredin, Oana | E3-0-WED-PM1 | Coulet, Vanessa | E1-P-TUE-P1-1 | Curry, Richard J | A5-H-TUE-PM2 |
| Cojocaru, Ana Maria | C8-P-THU-P2-1 | Coulon, Pierre Eugene | E2-O-MON-PM2 | CURTET, Emilien | E4-0-THU-AM2 |
| Cojocaru, Bogdan | A7-I-P-TUE-P1-5 | Coupeau, Christophe | D10-O-WED-PM2 | | A1-O-THU-PM2, |
| Cojocaru, Elisabeta Mirela | F4-P-TUE-P1-1 | | C10-P-THU-P2-7, | Curtin, William | D4-0-WED-PM1 |
| Cojocaru, Vasile Danut | F4-P-TUE-P1-1 | Couque, Hervé | B11-0-TUE-PM2, C10-0-THU-PM2 | Curtis-Rouse, Mike | C4-O-THU-AM2 |
| , | E3-P-TUE-P1-10, | COUQUE, Hervé | C3-O-FRI-AM2 | Cutolo, Antonio | B10-0-M0N-PM1 |
| Cojocaru-Miredin, Oana | A7-H-TUE-PM1 | Couret, Alain | C3-O-FRI-AM2 | Cutrano, Carla | D2-P-TUE-P1-10 |
| Cojocaru-Mirédin, Oana | E3-O-MON-AM2 | COURET, Alain | B3-O-TUE-PM2 | Cwolek, Beata | C1-I-P-TUE-P1-10 |
| Colak, Murat | C8-P-THU-P2-17, C8-O-THU-AM2 | Couris, Stelios | H2-P-TUE-P1-11 | Cygan, Rafal | B5-P-TUE-P1-6 |
| | F3-0-WED-PM2, | COURTIN, Laurine | E4-0-THU-AM2 | Cygan, Rafał | B5-P-TUE-P1-5 |
| Colilla, Montserrat | F3-0-WED-PM2 | Courtois, Loic | D1-0-WED-AM2 | Cyza, Anna | B5-P-TUE-P1-7 |
| Colin, Annie | A1-O-FRI-PM1 | | F5-O-FRI-AM2, | Czagány, Máté | C1-II-P-THU-P2-13 |
| Colin, Jérôme | D10-O-WED-PM2 | Courtois, Nicolas | F5-O-FRI-AM2 | Czaja, Pawel | C5-O-FRI-PM1 |
| Coll, Catalina | D2-O-TUE-PM1 | Couvrat, Mathieu | B3-0-M0N-PM2 | Czelej, Kamil | D10-II-P-THU-P2-5 |
| Collard, Christophe | C3-O-FRI-AM2 | Coussios Constantin | F2-I/K-WED-AM2 | Czeppe, Tomasz | B8-O-WED-PM2, A1-O-FRI-AM2 |
| Collet, Eric | D1-I/K-THU-AM2 | Couzinié, Jean-Philippe | B8-O-THU-AM2, B8-O-THU-AM2 | Czerwice Thiorry | C1-O-FRI-AM2, |
| Collins, George | B10-0-THU-PM1 | | D1-P-TUE-P1-6, | Czerwiec, Thierry | B10-O-WED-AM2 |
| Colò, Francesca | A7-II-P-THU-P2-24 | Cova, Federico | D1-P-TUE-P1-11 | D | |
| Colombo, Valentina | B7-0-THU-PM2 | Covas, Jose | C4-O-THU-PM1 | D Herlach, | C8-P-THU-P2-18 |
| Colomer, Jean-François | A1-O-FRI-PM1 | Cowley, Aidan | C4-O-THU-PM1 | D Holland-Moritz, | C8-P-THU-P2-18 |
| Colpankan Gunes, Oylum | F1-0-M0N-PM1 | Coya, Carmen | C11-P-THU-P2-2 | da Conceição, M.O.T. | B3-P-TUE-P1-1 |
| Colpo, Pascal | A5-O-MON-PM1 | Craciunescu, Teddy | E4-O-TUE-PM2 | da Rosa, Gregory | B1-0-TUE-PM2 |
| Constantin, Ionut | B8-P-THU-P2-4, H2-P-TUE-P1-5 | Craddock, Sarah | A8-H-TUE-AM2 | Da Silva, Julio Cesar | B2-0-TUE-AM2 |
| Constantinides, George | B1-O-TUE-AM2 | Crake, Angus | B7-H-WED-PM2 | Dabalà, Manuele | C1-O-FRI-AM2, A5-O-TUE-AM2, |
| Constantoudis , Vassilis | C11-O-FRI-PM1 | Creatore, M. | E2-O-TUE-PM1 | | C1-O-FRI-AM2 |
| Constantoudis, Vassilis | D2-O-THU-AM2 | Creatore, Mariadriana | E2-O-TUE-PM1 | Dąbrowa, Juliusz | B3-O-THU-AM2 |
| Conte, Giuseppe | A1-P-THU-P2-11 | Crema, Luigi | E1-P-TUE-P1-8 | Dabrowski, Mariusz | B1-O-WED-PM1 |
| Conte, Marcello | D9-P-TUE-P1-3 | Cremades, Ana | A7-II-P-THU-P2-1, A7-II-P-THU-P2-4, | d'Acapito, Francesco | D1-P-TUE-P1-25 |
| Conterosito, Eleonora | B7-0-FRI-PM1 | o, omados _{i,} mila | A7-I/K-WED-AM2 | D'Addato, Sergio | D1-P-TUE-P1-17 |
| Conti, Giamaica | A5-H-WED-AM2 | Creo, Rubén | C2-P-TUE-P1-4 | Dadé, Mickaël | D9-I/K-MON-AM2, |
| Contieri, Rodrigo | B2-0-THU-PM1 | Crépin, Jérôme | B2-0-M0N-PM1 | | B3-0-THU-AM2 C4-0-WED-AM2, |
| Cook, Phil | D1-P-TUE-P1-2 | | B11-0-M0N-PM1, | Dadras, Massoud | F4-O-MON-AM2 |
| Cools, Pieter | F1-0-M0N-PM2 | Crespo, Daniel | C6-P-TUE-P1-4, B11-O-WED-AM2 | Daehn, Glenn | B2-0-THU-PM2 |
| Cooper, Lucy | B7-0-WED-PM1 | Cresswell, Mark | F1-0-TUE-PM1 | Daemen, Luke .L | D3-O-WED-PM1 |
| | | - 1 000 11 01/4 I TIGIT N | I O TOL FINI | | |
| Coorevits, Thierry | D4-O-TUE-PM1 | Cretteur, Laurent | C5-P-THU-P2-4 | Daff, Tom | D8-O-THU-PM1 |

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| d'Agata, Elio | D9-I/K-TUE-PM2 | DE CARLAN, Yann | D9-O-MON-PM1 | Dejoie, Catherine | D1-O-FRI-PM1, E1-O-TUE-AM2 |
|--------------------------------------|--------------------------------------|---|--------------------------------|--------------------------------|-------------------------------------|
| Daghbouj, Nabil | C11-O-FRI-PM1 | De Cooman, Bruno C. | D5-O-THU-PM2, B1-O-WED-AM2 | Dekan, Julius | E4-P-THU-P2-4 |
| Dahan, Maxime | A5-0-MON-PM1 | De Fazio, AF | A5-0-WED-PM2 | Dekker, Riande | A5-0-TUE-PM2 |
| Dahlborg, Ulf | B8-0-WED-AM2 | • | | · | |
| Dahl-Hansen, Runar | E3-0-TUE-PM2 | DE FILPO, GIOVANNI | E2-P-TUE-P1-16 | Del Favero, Elena | F2-P-THU-P2-1 |
| Dai, Qin | A5-P-TUE-P1-14 | De Geyter, Nathalie | F4-0-M0N-AM2 | Del Prado, Felix | A7-II-P-THU-P2-6 |
| Dai, Yong | D9-0-TUE-AM2, | De Geyter, Nathalie | F1-0-M0N-PM2 | Del Rio , Emma | D9-P-TUE-P1-18 |
| Dai, Tong | D9-0-TUE-PM1 | de Graaf, Joost | A5-H-WED-PM2 | Delagnes, Denis | C3-O-FRI-AM2 |
| Daidié, Alain | C9-O-FRI-PM1 | de Groot , Kees | A8-O-MON-PM1 | Delahaye, Jocelyn | C4-P-THU-P2-4 |
| Dailly, Julian | E1-0-TUE-AM2 | de Jong, Ed | A9-0-FRI-PM1, | Delandar, Arash Hosseinzadeh | D9-O-TUE-AM2 |
| Daily, Charles R. | H1-0-M0N-PM2 | 1 | A3-P-TUE-P1-25 | DELANNAY, Laurent | D4-O-MON-PM1 |
| Dal, Morgan | C4-O-WED-AM2 | de Koning, Arjan | D9-I/K-TUE-PM2 | Delannoy, Yves | E3-H-TUE-PM2 |
| DAL, Morgan | C2-0-TUE-PM1 | de la Fuente, Jesús M. | F2-O-WED-PM1, F2-O-WED-PM1 | Delaporte, Philippe | C2-H-MON-AM2 |
| Dalbauer, Valentin | C1-O-WED-AM2 | De La Pierre, Stefano | A6-O-FRI-AM2 | Delcuse, Laura | C3-H-FRI-PM1 |
| Dalibon, Eugenia | B10-O-WED-AM2 | de Leeuw, Nora | D3-0-WED-PM2 | Deldar, Shayan | B11-0-TUE-AM2, |
| Dall, Wilhelm | E3-0-TUE-PM2 | de Ligny, Dominique | F1-0-TUE-PM1 | Detual, Silayan | B9-O-THU-PM2 |
| Dalla Fontana, Giulia | B9-I/K-THU-AM2 | De Lille, Didier | B3-0-TUE-AM2 | Delehanty, James | A5-0-M0N-PM2 |
| Dalverny, Olivier | D4-0-TUE-AM2 | De Litte, Didiei | E3-0-WED-PM2, | Delfosse, Jerome | C6-O-MON-AM2 |
| Dámer, Jozef | D9-O-MON-PM2 | De Luca, Oreste | A1-P-THU-P2-11 | Delfosse, Jérôme | B2-O-THU-PM1 |
| Dami, Sofia | A9-O-FRI-AM2 | De Marco, Carmela | F2-P-THU-P2-9 | Delgado Carrascón, Rosalía | F3-P-THU-P2-3 |
| DAMIANO, OLIVIER | A6-O-FRI-AM2 | De Maria, Carmelo | F1-P-TUE-P1-7 | Delgado, Francisco Javier | D2-P-TUE-P1-14 |
| | | De Matteis, Laura | F2-O-WED-PM1 | D'Elia, Eleonora | F6-H-FRI-PM1, |
| Damin, Alessandro | D1-P-TUE-P1-24 | de Meatza, Iratxe | E2-0-MON-PM1 | D Lua, Licolloid | B6-O-TUE-PM1 |
| Damm, Cornelia | C1-O-THU-AM2 | | A5-0-WED-PM2 | Delides, Constandinos | A3-P-TUE-P1-19 |
| Damone, Angelo | D10-II-P-THU-P2-8 | de Mello Donega, Celso | | Deligiannis, Konstantinos | E1-0-M0N-PM1 |
| Dan, Ioan | F4-P-TUE-P1-1 | de Melo , Claudia | C1-O-THU-PM1, C1-O-THU-PM1 | Delimitis, A. | A2-P-THU-P2-4 |
| Danas, Konstantinos | B6-0-WED-AM2 | de Melo, Osvaldo | C1-O-THU-PM1 | Delimitis, Andreas | E3-P-TUE-P1-14 |
| Danas, Kostas | D5-O-FRI-PM1 | De Panfilis, Simone | D3-0-WED-PM1 | Della Pirriera, Mónica Beatriz | H3-P-TUE-P1-1 |
| Dancette, Sylvain | D1-I/K-WED-AM2 | De Pascalis, Fabio | D9-P-TUE-P1-6 | Della Pirriera, Mónica Bratriz | E3-P-TUE-P1-8 |
| Dandekar, Prajakta | C1-O-FRI-PM1 | de Prado, Esther | A7-II-P-THU-P2-14 | Dellasega, D. | E4-P-THU-P2-1 |
| Daněk, Kamil | B2-P-TUE-P1-2 | de Prado, Esther | A7-0-FRI-AM2 | Delli, Evangelia | C11-O-THU-PM2 |
| Dang, Siaufung | B1-0-FRI-AM2 | de Sá Brandim, Ayrton | B11-P-TUE-P1-9 | Delmas, Florent | B9-P-THU-P2-5 |
| Dang, Zhiya | A5-0-MON-AM2 | · | E2-P-TUE-P1-23 | Delobel, Florimond | B5-O-MON-AM2 |
| Danielewski, Marek | B3-0-THU-AM2 | De Santo, Maria P. | | Delobelle, Patrick | C1-O-MON-AM2 |
| Daniil, Andreana | E3-P-TUE-P1-12 | DE SANTO, MARIA P. | E2-P-TUE-P1-16 | Delville, Jean Pierre | A5-P-TUE-P1-8 |
| Dankova, Zuzana | A1-P-THU-P2-10 | De Soete, Wouter | H3-O-MON-AM2 | | A5-P-TUE-P1-8, |
| Danlos, Yoann | C3-O-THU-PM1 | de Souza, G.R.X. | B3-P-TUE-P1-1 | Delville, Marie Helene | F3-0-THU-AM2 |
| Deseit Frédérie | B1-H-TUE-PM2, | De trizio, Luca | A5-O-TUE-AM2 | Delville, Marie-Helene | A5-H-WED-AM2 |
| Danoix, Frédéric | B3-0-WED-AM2 | De Trizio, Luca | A5-0-M0N-AM2 | Delville, Remi | E4-0-WED-PM1 |
| Danoix, Raphaele | B3-0-WED-AM2 | De Vito, Eric | E2-0-M0N-PM2 | Delville, Rémi | E4-0-WED-PM1 |
| Darvishi Kamachali, Reza | D5-O-THU-PM1, | De Vos, Arthur | B7-H-FRI-AM2 | Delville, Rémi | D9-P-TUE-P1-11 |
| Des Deliebi Cirkhanline | D5-O-FRI-PM1 | De Vos, Dirk | B7-0-FRI-AM2, B7-0-WED-PM1, | Dembinski, Lucas | C3-O-THU-PM1 |
| Das Bakshi, Subhankar | B10-0-WED-PM1 | 50 103, 511K | B7-P-THU-P2-2 | Demes, Thomas | A7-H-THU-PM1 |
| Das, Arya | D10-I-P-TUE-P1-7 | De Vos, Wiebe Matthijs | A9-H-FRI-AM2 | Demirkesen, Secil | C8-P-THU-P2-5 |
| Datskos, Panos | A7-0-WED-AM2 | De Waele, Sam | D8-O-WED-PM1 | | C10-P-THU-P2-3, |
| Daubriac, Richard | C11-O-THU-PM1 | De Wispelaere, Kristof | B7-0-FRI-AM2 | Demirtas, Muhammet | C10-P-THU-P2-6 |
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| Daurskikh, Anna | C4-O-WED-PM1 | Deambrosis, Silvia Maria | D9-P-TUE-P1-10 | DEMOISSON, Frédéric | C3-O-FRI-AM2 |
| Davazoglou, Dimitrios | C11-P-THU-P2-11 | Dębowska, Aleksandra | B3-P-TUE-P1-3 | Demuynck, Ruben | B7-0-FRI-AM2 |
| Davazoglou, Dimitris | C1-II-P-THU-P2-18 | Debruyne, Dimitri | B10-0-TUE-AM2 | Dendievel, Remy | E6-O-FRI-PM1, |
| David, Adrian | D2-0-TUE-AM2 | | E4-H-TUE-PM2 | Dendievet, Kemy | C9-O-THU-PM1 |
| David, Constantine | C9-P-THU-P2-2 | Decamps, Brigitte | D9-0-TUE-PM1, | Nendringu-Samara C | A5-P-TUE-P1-11, A5-P-TUE-P1-12, |
| David, Laurent | F4-H-MON-PM2 | Décamps, Brigitte | D9-I/K-WED-PM1 | Dendrinou-Samara, C. | A5-P-TUE-P1-13 |
| David, Marie-Laure | D2-O-WED-AM2 | Decarlan, Yann | D9-I/K-MON-AM2 | Dendrinou-samara, Catherine | A5-O-WED-AM2 |
| Davidson, Erlend | D8-O-THU-PM1 | Dechev, Dimitar | C1-P-TUE-P1-15 | , | A5-P-TUE-P1-4, |
| Davies, Robert | C1-O-MON-PM1 | Declercq, Heidi | F4-0-M0N-AM2 | Dendrinou-Samara, Catherine | A5-P-TUE-P1-9, |
| Davies, Robert J | D2-0-TUE-PM1 | Decobert, Jean | D4-P-TUE-P2-1 | | A5-P-TUE-P1-10 |
| Davo, Belen | B11-O-WED-PM2 | Decremps, Frederic | D3-H-WED-PM1 | Deng, Dunyong | C4-O-THU-AM2 |
| | E6-0-FRI-PM1, | Dedinaite, Andra | F1-0-MON-AM2 | Deng, Yue | E2-O-WED-AM2 |
| Davoine, Cecile | C3-H-FRI-PM1 | Dedry, Olivier | C4-P-THU-P2-4 | Deng, Yun | D4-O-WED-AM2 |
| Davris, Panagiotis | H2-O-MON-AM2 | | | Dengg, Thomas | D8-O-THU-PM1 |
| Davtyan, Arman | D1-0-TUE-AM2 | Degmova, Jarmila | E4-P-THU-P2-4 | Denoual, Christophe | D8-P-TUE-P1-3, |
| Dawaymeh, Fadi | A7-I-P-TUE-P1-16 | Dehghani, Mohammad | D8-O-THU-PM1 | | D3-O-WED-AM2 |
| Dawson, James A | E2-0-WED-AM2 | Dehm, Gerhard | D2-O-MON-PM2 | Denquin, Anne | B3-O-TUE-PM1 |
| de Almeida, Luiz Henrique | F4-P-TUE-P1-8 | Dehm, Gerhard | D4-0-WED-PM1 | DENQUIN, Anne | B3-O-TUE-PM2 |
| · | A1-H-FRI-PM1, | Dehmas, Moukrane | B2-O-THU-PM1, B2-O-WED-PM1 | Dequeker, Jérôme | D8-O-THU-AM2 |
| De Andrés, Alicia | A1-P-THU-P2-5 | Dehoff, Ryan | B10-0-WED-PM2 | Dera, Wojciech | D2-P-TUE-P1-23, C1-II-P-THU-P2-9 |
| de Andréa Aliaia | C11-P-THU-P2-2, | Dehoux, Anita | D4-0-TUE-AM2 | Dérès, Julien | D2-0-WED-AM2 |
| de Andrés, Alicia | A7-I-P-TUE-P1-7, A7-II-P-THU-P2-9 | Deidda, Graziano | F6-0-FRI-PM1 | Desbordes, Mathieu | A6-0-THU-PM2 |
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| | D9-I/K-WED-PM2, | Dillitt akoputos, George | D2-O-WED-PM2 | Dobatkin, S.V. | C10-P-THU-P2-3 |
| Desgardin, Pierre | D9-0-WED-PM2, | | D2-P-TUE-P1-5, | Dobatkin, Sergey | B4-O-THU-AM2, B4-P-THU-P2-1, |
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| Deshmukh, Rajendrasing Desmurs, Jean-Roger | E2-P-TUE-P1-11 | | D2-O-MON-AM2, | Döbbeler, Benjamin | C9-O-THU-AM2, C9-P-THU-P2-7 |
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| Detavernier, Christophe | E2-0-TUE-PM1 | Dimitrakopulos, George P. | D2-0-WED-PM1, | Dobroň, Patrik | B11-P-TUE-P1-15 |
| Detemple, Eric | B1-O-FRI-PM1 | Dimitrakopulos, Georgios | D2-P-TUE-P1-6 | Dobrynin, Alexander N. | A8-O-MON-PM1 |
| Detlefs, Carsten | D1-P-TUE-P1-2 | Dimitriadis, CA | C11-O-THU-PM2 | Dodds, Steve | A6-O-FRI-AM2 |
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| Escorihuela, Carlos | D8-P-TUE-P1-14 | Falaras, Polycarpos | E3-0-∭-AM2, E3-P- TUE-P1-11 | Feng, Renfei | D1-O-FRI-PM1 |
| Escorihuela-Sayalero, Carlos | D8-O-WED-PM2 | Falco, Guillaume | A3-O-TUE-AM2 | Feng, Yu Ping | F4-0-MON-PM2 |
| Escoube, Robert | B3-O-TUE-AM2 | Falco, Marisa | A7-II-P-THU-P2-24 | Feng, Yuping | C3-P-THU-P2-13 |
| Escudero Castejon, Lidia | H2-P-TUE-P1-7 | Falk, Fritz | E3-0-TUE-PM2 | Fensin, Saryu | D6-O-FRI-AM2 |
| Esderts, Alfons | B10-I/K-M0N-AM2 | Fall, Andreas | A7-I-P-TUE-P1-2 | Fernandes, Rute | A5-0-M0N-PM2 |
| Esin, Vladimir | B3-O-THU-AM2, | Famprikis, Theodosios | E2-O-WED-AM2 | Fernández Delgado, Natalia | D2-P-TUE-P1-14 |
| | B2-0-M0N-PM1 | Fan, Jiangkun | B2-0-THU-PM1 | Fernandez Pison, Pilar | E4-0-WED-PM2 |
| Esparza-Schulz, J. Marcos | A1-0-FRI-PM1 | Fan, Sun | B8-O-THU-AM2 | Fernández Rodríguez, Laura | C11-O-FRI-PM1 |
| Espinosa, Ana | F2-O-WED-AM2 | Fan, Yong | H2-O-MON-PM1 | Fernandez, Julian | D10-I-P-TUE-P1-8 |
| Espinoza, Rodrigo | E3-P-TUE-P1-24 | - | B2-O-THU-PM2, | Fernández, P. | XXX |
| Esposito, Elisa | A9-0-FRI-PM1 | Fan, Zhongyun | B2-P-TUE-P1-11 | | C11-O-FRI-PM1, |
| Ess, Markus | C1-O-FRI-PM1 | Fanciulli, Marco | C11-O-THU-AM2, C11-P-THU-P2-17 | | C2-O-MON-PM1, A7-II-P-THU-P2-1: |
| Esterl, Raphael | B1-0-THU-PM1 | Fanetti, Mattia | B2-O-FRI-AM2 | Fernández, Paloma | A7-II-P-THU-P2-1 |
| Estevez, Rafael | D4-P-TUE-P2-8 | • | D1-O-TUE-PM2, | | A7-O-FRI-AM2, A7-O-WED-PM2 |
| ESTOURNES, Claude | C3-P-THU-P2-9, C3-O-FRI-AM2 | Fang, Haixing | B1-O-FRI-PM1 | | C2-P-TUE-P1-1, |
| Estournès, Claude | A1-0-FRI-AM2 | Fantozzi, Gilbert | C3-O-FRI-AM2 | Fernández, Susana María | E3-P-TUE-P1-1 |
| Estrade, Sonia | A5-O-WED-PM2 | Farahani, Hussein | B1-O-TUE-PM2 | Fernandez-Alonso, Felix | B7-0-THU-AM2, |
| Estradé, Sònia | D2-O-TUE-PM1 | Farahbod, Lena | C4-O-THU-PM2 | * | B7-P-THU-P2-2 |
| Estradé, Sònia | D2-O-TUE-PM2 | Faria, Diana | F6-P-THU-P2-1 | Fernandez-Caballero, Antonio | D8-O-FRI-AM2, B8-O-WED-PM2, |
| Estrin , Yuri | B4-H-THU-PM2 | Faria, Maria Ismenia Sodero | C6-P-TUE-P1-11 | , | B7-P-THU-P2-12 |
| Estrin, Yuri | B4-P-THU-P2-1 | Farias, Iverton | C1-I-P-TUE-P1-19 | Fernández-García, Aránzazu | E3-0-WED-PM2, |
| Esvan, Jérome | A5-0-TUE-PM1 | Farid, Osama | E4-0-WED-AM2 | · | E3-O-WED-PM2 C4-P-THU-P2-11, |
| Etiemble, Aurelien | E2-O-TUE-PM2 | Farivar, Hamidreza | B1-O-TUE-PM2, | Fernandez-Martinez, Roberto | C4-P-THU-P2-14 |
| Etienne, Auriane | B4-0-THU-AM2 | · | D5-O-THU-PM2 | Fernandez-Morales, Patricia | F1-0-TUE-PM2 |
| Etxebarria, Alberto | C4-P-THU-P2-11 | Farkas, Gergely | B2-O-WED-PM2 | Fernández-Pariente , Inés | C1-O-MON-PM2 |
| Evangelakis, G A | D8-P-TUE-P1-6 | Farkhutdinova, Dilara | C5-O-FRI-PM1 | Fernández-Villa, Daniel | F1-0-TUE-AM2, |
| Evangelakis, Georgios A. | D1-P-TUE-P1-18 | | A2-H-WED-PM2, A2-P-THU-P2-10, | Ternandez vida, baniet | F1-P-TUE-P1-3 |
| Evangelakis, Georgios A. | F4-P-TUE-P1-7 | Farle, Michael | A2-I/K-THU-AM2, | Fernicola, Alessandra | E2-P-TUE-P1-4 |
| Evangelakis, Giorgos A. | B9-0-THU-AM2 | | A7-O-WED-PM2, A2-P-THU-P2-11 | Ferrando, Fabio | A3-O-MON-PM1 |
| Evangelisti, Fabio | A7-0-THU-PM2 | Farle, Michael | A2-P-THU-P2-12 | Ferrara, Chiara | E2-O-MON-AM2 |
| Evangelopoulos, Panagiotis | E3-O-WED-PM2 | Fasanella, Angela | E2-P-TUE-P1-23 | Ferrari, Ivan Vito | E1-P-TUE-P1-2, E2-O-WED-AM2 |
| Evangelou, Alexander | B10-P-TUE-P1-9 | FASANELLA, ANGELA | E2-P-TUE-P1-16 | | D9-I/K-MON-PM2, |
| Evans, Alex | B3-0-TUE-AM2 | Fasnakis, Dimitrios | B10-0-M0N-PM1 | | A6-0-FRI-AM2, |
| Evcin, Atilla | F6-P-THU-P2-2 | Fasquelle, Didier | A7-0-THU-PM1 | Ferraris, Monica | C5-P-THU-P2-3, C1-II-P-THU-P2-5, |
| | B11-O-THU-AM2, | | A5-O-TUE-PM1, | | B6-P-TUE-P1-19 |
| Everett, Richard | D4-O-MON-PM2, | Fau, Pierre | A7-0-TUE-PM2 | Ferraro, Angelo | A2-H-WED-PM1 |
| Eulyalkhin Androv | C4-O-FRI-PM1 C4-O-WED-PM1 | Faucher, Stéphane | F3-O-THU-AM2 | Ferraro, Claudio | F6-0-FRI-PM1 |
| Evlyukhin, Andrey Examilioti, Theano | B10-0-WED-AM2 | 5 131 4 | D1-0-WED-AM2, | Ferraro, Claudio | B5-0-TUE-AM2 |
| Exbrayat, Loïc | A3-0-TUE-AM2 | Fauchille, Anne-Laure | D1-P-TUE-P1-5, D1-P-TUE-P1-29 | Ferraro, Marco | E2-0-TUE-AM2, |
| , . | | Fauquier, Laurent | C11-O-THU-PM1 | | E2-O-MON-AM2 |
| Eyal, Yehuda | D9-O-TUE-PM2 | Faure, Bruce | D4-O-TUE-AM2 | Ferreira Gomes, Bianca | B1-P-THU-P2-9 |
| Ezquerra, Tiberio A | A7-H-TUE-PM2 | Faure, Gérôme | D10-H-THU-AM2 | Ferreira, Isaac | C4-0-WED-PM1 |
| F | D4 D TIIII D0 / | Faure, Laurent | D3-O-WED-PM2 | Ferreira, Joel | XXX |
| F. Barbes, Maria | B1-P-THU-P2-4 | Faurie, Damien | C10-P-THU-P2-7 | Ferreira, P. J. | C1-II-P-THU-P2-2 |
| Fabbri, Fabio | D9-O-TUE-AM2 | Fausty, Julien | D10-I-P-TUE-P1-5 | Ferreira, Paulo | C1-H-THU-AM2 |
| Faber, Hendrik | D2-P-TUE-P1-5 | Fauth, Francois | A8-O-MON-PM1 | Ferreira, Paulo J. | A1-0-FRI-AM2 |
| Faberova, Maria | B6-P-TUE-P1-25 | Fautrelle, Yves | C8-O-FRI-PM1 | Ferrer, Gertri | H3-P-TUE-P1-1 |
| Fabre, Victor | D6-0-FRI-PM1 | Favier, Veronique | B11-0-TUE-AM2 | Ferro, Y. | E4-P-THU-P2-1, E4-O-WED-PM2 |
| Fabregue, Damien | F5-O-FRI-AM2, C9-O-THU-PM1, | Favre, Julien | C4-O-THU-PM2 | Ferry, L. | E4-O-WED-PM2 |
| - | C9-O-THU-PM1 | Feaugas, Xavier | B10-0-TUE-PM2 | · | C1-H-THU-PM2, |
| Fabrègue, Damien | B9-0-THU-PM2 | Fécant, Antoine | A5-H-TUE-AM2 | Fetzer, Renate | D9-P-TUE-P1-5 |
| Fabrichnaya, O. | C10-H-THU-AM2 | Fedin, Petr | E4-0-WED-AM2 | Fetzer, Renate | E4-P-THU-P2-3 |
| | B5-0-TUE-PM1, | Fedorov, Mark | B8-P-THU-P2-9 | Feuerbacher, Michael | B8-0-THU-AM2 |
| Fabrichnaya, Olga | C10-H-THU-AM2, B11-O-MON-PM2, | Feggeler, Thomas | A2-P-THU-P2-12 | Fey, Tobias | B5-0-TUE-AM2 |
| | B5-0-TUE-PM1 | | F6-0-FRI-PM1, | Fialová, Markéta | E1-0-TUE-PM2 |
| Fabris, Douglas | F4-0-MON-PM1 | Feilden, Ezra | B5-O-TUE-AM2 | F'. II D. I. | A3-0-M0N-AM2, |
| Fabrizi, Federica | A8-O-MON-PM1 | Feito, Maria Jose | F1-0-TUE-AM2 | Fiedler, Bodo | B6-O-TUE-PM2, B6-O-TUE-PM1 |
| Fabrro, Rémy | C4-O-WED-AM2 | Feito, María José | F1-P-TUE-P1-3 | Fiedler, Melanie | B10-I/K-MON-AM2 |
| Fachikov, Ludmil | A1-P-THU-P2-1 | Fekiri, Hiba | B6-P-TUE-P1-21 | Field, Amanda | C4-O-THU-AM2 |
| Facsko, Stefan | C11-O-THU-AM2 | Feldbauer, Gregor | D8-O-THU-PM1 | Field, Kevin G. | H1-O-MON-PM2 |
| Fadaie, Mojde | A7-II-P-THU-P2-21 | Felde, Nadja | D2-O-THU-AM2 | Fierro, Vanessa | H2-O-MON-AM2 |
| r dudic, mojuc | | | | | |

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| Fikas, Mihalis | B10-0-M0N-PM1 | Foglia, Domenico | E6-0-THU-PM1 | Freyss, Michel | D9-O-WED-PM2 |
|--|--|---|---------------------------------|--|--------------------------------|
| Filho, Mário Viana Medeiros | C1-II-P-THU-P2-3 | Fokkema, Jantina | A5-O-WED-PM1 | , | D5-O-FRI-PM1, |
| Filintaglou Kyriakos | D1-P-TUE-P1-1, | Fongarland, Pascal | C1-I-P-TUE-P1-1 | Friak, Martin | D8-O-FRI-AM2, |
| Filintoglou, Kyriakos | D3-P-THU-P2-2 | Fonseca, Carlos | B10-0-WED-PM1 | | A7-H-MON-PM2, D8-O-WED-AM2 |
| Filipescu, Mihaela | A7-II-P-THU-P2-3, C2-P-TUE-P1-9 | Fontaine, Charly | C11-O-THU-AM2 | Friák, Martin | B1-0-FRI-AM2, |
| Fillipidou , Maria | C2-P-TUE-P1-8 | Fontcuberta i Morral, Anna | E3-P-TUE-P1-12 | | D8-O-THU-PM1 |
| Filiz, Volkan | A9-0-THU-PM2 | Forêt, Pierre | C4-O-FRI-AM2, | Fricke, Konrad | B3-P-TUE-P1-8 |
| Fima, Przemyslaw | E2-P-TUE-P1-12 | · | C4-O-WED-AM2 | Friedl, Martin | E3-P-TUE-P1-12 |
| Fima, Przemysław | E2-P-TUE-P1-14 | FORI, Benoît | C1-0-THU-PM2 F6-0-THU-PM1 | Friedrich, Bernd | H2-O-MON-AM2 B2-O-MON-AM2 |
| Finnis, Michael | D6-O-FRI-AM2 | Forien, Jean-Baptiste Formoso, Vincenzo | | Friedrich, Horst E. | |
| Finnis, Mike | D8-O-THU-PM1, | Formoso, vincenzo Fornabaio, Marta | E3-O-WED-PM2 F5-O-FRI-AM2 | Frison, Ruggero Frogley, Mark | D1-0-TUE-AM2 B7-0-WED-PM2 |
| | D8-O-THU-AM2 | Fornasari, Lucia | F3-0-THU-PM1 | Frolov, Genadij | A6-II-P-THU-P2-2 |
| Fino, Paolo | C4-O-FRI-AM2, C4-O-FRI-AM2 | Fornell , Jordina | F4-0-MON-PM2 | Frolov, Genadiy | A6-I-P-TUE-P1-4 |
| Fiore, Gianluca | C4-O-FRI-AM2, | Fornell, Jordina | C3-P-THU-P2-13 | Fromme, Petra | D1-P-TUE-P1-20 |
| | B9-I/K-THU-AM2 | Forouzan, Farnoosh | C8-O-THU-AM2 | · | A2-H-WED-PM1, |
| Fiore, Gianluca | B8-O-WED-PM2 | Förster, Christiane | B8-H-THU-PM1 | Frontera, Carlos | A8-O-MON-AM2 |
| Fiori, Matilde | F2-P-THU-P2-9 | Forzan, Michele | C9-O-THU-PM2 | Fruchart, Daniel | A7-0-THU-AM2 |
| Fiorilli , Sonia Lucia | F2-O-WED-AM2 F2-P-THU-P2-3, | Fossati, Paul | E4-P-THU-P2-7 | Frutos Torres, Emilio | F4-P-TUE-P1-9, C1-O-MON-PM2 |
| Finalli Cania | F1-P-TUE-P1-7, | Foteinopoulos, Panagis | B11-P-TUE-P1-11 | | D8-0-WED-PM1, |
| Fiorilli, Sonia | F2-P-THU-P2-5, | Fotsis, Theodoros | F1-0-M0N-AM2 | Fu, Chu Chun | D9-P-TUE-P1-9 |
| Finalli Cania | F1-0-TUE-PM1 | Fouletier, Jacques | A9-0-FRI-PM1 | Fu, Xue-song | C6-O-MON-PM1 |
| Fiorilli, Sonia | F1-P-TUE-P1-5 F2-P-THU-P2-7 | Fountas, Nikolaos | C9-O-FRI-AM2 | Fuentes-Edfuf, Yasser | F6-O-FRI-PM1 |
| Fiorilli, Sonia | A3-P-TUE-P1-22 | Fourlaris, George | B11-0-M0N-PM2 | Fuerderer, Tobias | F5-O-FRI-AM2 |
| Fiotakis, CONSTANTINOS Firestein , Konstantin | A7-0-WED-PM2 | Fournel, Frank | D4-P-TUE-P2-1 | Fuji, Masayoshi | C10-I/K-WED-AM2 |
| rifestein, Kunstantin | E1-0-MON-PM2, | Foy, Eddy | E2-0-M0N-PM2 | Fujiki, Yuya | B11-0-WED-PM2 |
| Eirlei Lucyna | E1-H-MON-PM2, | | B8-P-THU-P2-1, | Fujimaki, Yoshinobu | E1-I/K-TUE-AM2 |
| Firlej, Lucyna | E1-P-TUE-P1-1, | Fraczkiewicz, Anna | B8-P-THU-P2-3, B8-O-THU-AM2, | Fujita, Naoya | D3-O-WED-PM2 |
| Firlus, Konstantin | E1-I/K-MON-PM2 B3-O-WED-PM2 | | B8-P-THU-P2-6, | Fuks, David | E3-0-TUE-PM1 |
| Firstov, Sergey | B8-P-THU-P2-13 | | B8-O-THU-AM2 | Fukuto, Masafumi | A7-H-WED-AM2 |
| Fischer, Birgit | A9-0-FRI-AM2 | Fraczkiewicz, Anna | B8-O-THU-AM2 | Fula, Diogo | C4-P-THU-P2-8 |
| Fischer, Daniela | C1-O-THU-AM2 | Fradet, Clémence | D4-O-TUE-PM1 | Fumagalli, Francesco | E2-0-TUE-AM2 |
| | C4-0-WED-AM2, | Frage, Naum | B6-O-WED-AM2 | FUNDENBERGER, Jean Jacques | C10-0-WED-AM2 |
| Fischer, Marie | F4-0-MON-PM1 | Fragouli, Despina | A3-O-TUE-AM2, A3-O-MON-PM1, | Funke, Matthias | C1-II-P-THU-P2-5 |
| Fischer, Tim | B10-0-WED-AM2 | | A3-0-M0N-PM2 | Fuoco, Alessio | A9-P-THU-P2-2, A9-O-FRI-PM1 |
| Fitch, Andrew | D1-O-FRI-PM1 | Franceschetti, Fabio | C4-O-THU-PM1 | Fürderer, Tobias | F5-O-FRI-AM2 |
| Fitoussi, Joseph | D10-O-WED-PM2 | Franceschi, Sophie | F1-0-M0N-AM2 | Furlani, Ana María | B3-P-TUE-P1-5 |
| Fitschen, Jan Henrik | B11-O-TUE-AM2 | Franchitti, Stefania | A6-II-P-THU-P2-3 | Fürtauer, Siegfried | E2-0-TUE-AM2 |
| Fitzpatrick, Micheal E. | E4-P-THU-P2-6, E4-P-THU-P2-7 | François, Elise | H2-P-TUE-P1-11 | Fuzer, Jan | B6-P-TUE-P1-25 |
| 5 | B11-0-WED-PM2, | Francoual, Sonia | A8-O-MON-PM1 | G | |
| Fivel, Marc | B3-0-M0N-AM2 | Frangis, Nikolaos | D2-P-TUE-P1-16 | G. Caballero, Francisca | B1-O-WED-PM1, |
| Fjellvåg, Helmer | A2-0-THU-PM1 | Franke, Peter | E4-0-THU-AM2 | · · | B1-H-WED-PM2 |
| Flage-Larsen, Espen | E3-0-M0N-PM2 | Frankel, Philipp | E4-O-WED-PM2, E4-O-WED-AM2 | G. Caballero, Francisca | B1-P-THU-P2-5 |
| Flandorfer, Hans | E2-O-TUE-AM2, E2-P-TUE-P1-15 | Frankel, Philipp | D1-O-THU-PM1 | Gaalken, Janina | A9-0-THU-PM2 |
| | F6-0-THU-PM1, | Franz, Alexandra | E3-O-WED-PM1, | Gåård, Anders | B10-0-M0N-PM1 |
| Fleck, Claudia | B11-0-TUE-PM1, | | E3-P-TUE-P1-9 | Gabel, Johannes | B3-0-WED-PM2 |
| | D4-O-WED-PM1 | Fraser, Hamish | B2-I/K-TUE-AM2 | Gabriel, Tobias | C1-O-WED-PM1 |
| Fleck, Michael | D5-H-FRI-AM2 | Frateri, Miranda | C4-O-THU-PM1 | Gabrion, Xavier GACOIN, Thierry | B2-O-WED-PM1 B6-O-WED-AM2 |
| Fleischer, Christian | E3-0-TUE-AM2 | | F6-O-THU-PM2, F6-O-THU-PM2, | Gaczynski, Piotr | A9-H-FRI-PM1 |
| Fleurisson, Romain Fleury, Guillaume | C8-O-FRI-AM2 A7-O-TUE-PM2 | Fratzl, Peter | F6-O-THU-PM1, | Gadonneix, Philippe | H2-O-MON-AM2 |
| r teur y, outtaurne | E6-0-THU-PM2, | F 14-2 | F6-O-THU-PM1 | Gaertner, Daniel | B8-0-WED-PM1 |
| Fliegener, Sascha | E6-0-THU-PM1, E6- | Frayret, Jérôme | C1-0-THU-PM2 F6-P-THU-P2-1, | Gagaoudakis, E. | C1-II-P-THU-P2-7 |
| | O-THU-PM1 | Fredel, Márcio | F1-0-TUE-PM2 | Gagaoudakis, Emmanouil | C1-O-WED-AM2 |
| Floratos, Panagiotis | B10-O-TUE-PM1 | Fredel, Márcio | F4-0-MON-PM1 | Gahbiche, Amen | B11-0-M0N-PM2 |
| Florea, Mara | E6-O-THU-PM1, E6- O-THU-PM1 | Fredette, Robert | H1-H-TUE-AM2 | Gajewska, Marta | C8-O-THU-PM2 |
| Florea, Mihaela | A7-I-P-TUE-P1-5 | Fredriksson, Claes | H3-O-MON-PM1 | Galan Lopez, Jesus | B11-0-WED-PM2 |
| Florea, Raluca Maria | B6-P-TUE-P1-20 | Fredriksson, Gunnel | C4-O-THU-AM2 | Colonakia lasif | A2-I/K-WED-PM1, |
| Flores, Jorge | A2-H-WED-PM1 | Fredriksson, Wendy | C4-O-THU-AM2 | Galanakis, losif | E3-P-TUE-P1-2 |
| Flores-Carrasco, G. | A7-0-WED-PM2 | Freiherr von Thüngen, Immanuel | B2-O-TUE-PM2 | Galarneau, Anne | E2-0-WED-AM2 |
| Florez, Sonia | B6-0-TUE-PM1 | Freire, José L.F. | B10-0-TUE-AM2 | Galatanu, Andrei | E4-0-TUE-PM2 |
| Floriach-Clark, Jordi | F6-0-FRI-AM2 | Freis, Daniel | D9-I/K-TUE-PM2, | Galazka, Zbigniew | D2-I/K-TUE-PM2 |
| | F6-0-FRI-PM1, | · | D9-O-WED-PM2 E2-O-TUE-PM2 | Galceran, Regina | A8-0-MON-AM2 |
| | | Freitag, Stefanie | | Galeandro-Diamant, Thomas | A5-0-TUE-AM2 |
| Florian, Camilo | A7-0-FRI-AM2, Δ7-0-FRI-ΔM2 | Freslier Mathias | F4-II-IHII-DM I | 0.1.1.4 | |
| | A7-0-FRI-AM2 | Freslier, Mathias | E6-O-THU-PM1 | Galeckas, A. | E3-H-WED-PM1 |
| Florian, Pierre | A7-0-FRI-AM2 C1-0-MON-PM2 | Fresnais, Jérôme | A3-O-MON-PM1 | Galeckas, Augustinas | E3-0-WED-PM1 |
| | A7-0-FRI-AM2 | | | Galeckas, Augustinas Galeckas, Augustinas | E3-O-WED-PM1 A7-O-THU-PM1 |
| Florian, Pierre Floriano, Ricardo | A7-0-FRI-AM2 C1-0-MON-PM2 E1-0-TUE-PM2 | Fresnais, Jérôme | A3-0-MON-PM1 A5-0-MON-PM1 | Galeckas, Augustinas | E3-0-WED-PM1 |

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| Carlo Statistics | LUNUMAI ZUI/ | | | | · | |
|--|-----------------------------|----------------|------------------------------|-------------------|-------------------------------|---------------------------------|
| Sept. March Sept. Sept | Galetz, Mathias | | | | Gelbstein, Yaniv | E3-H-MON-PM1, E3-O-TUE-PM1 |
| March Marc | | | | | Gelbstein, Yaniv | E3-0-WED-AM2 |
| Section Control Cont | · | | Galcia-Maleu, C. | | Gelet, Jean-Louis | D1-O-FRI-AM2 |
| Deptile (1985 Deptile (198 | | | | · | Gemechu, Eskinder | H3-O-MON-AM2 |
| Control Cont | Galindo-Nava, Enrique | | Garcia-Mateo, Carlos | · · | Gemi. Lokman | C8-P-THU-P2-16, |
| Common | Galiotis, Costas | | | B1-0-FRI-AM2, B1- | | |
| Columbia | | | | | | B8-O-WED-PM1, |
| Section Common | Gall, Monika | | Garcia-Mateo, Carlos | | Gemming, Thomas | B8-O-THU-PM1 |
| Authors | | | García-Mateo, Carlos | B1-P-THU-P2-3 | Gendarme, Christine | C1-O-MON-PM1 |
| Section Control Cont | Gallais, L. | | García-Muñoz , José-Luis | A8-O-MON-PM1 | Genevois-Mazellier, Cécile | E4-H-TUE-PM2 |
| Common C | Galliano, Simone | | García-Muñoz, José Luis | A8-O-MON-PM1 | Geng, J. | D1-O-THU-PM2 |
| | Gallo, Marta | | Garcia-Pardo, Javier | F3-O-THU-PM1 | Gennari, Claudio | C1-O-FRI-AM2, |
| Control (1) | | | García-Pérez, Fernando | C2-P-TUE-P1-1 | Gonnari Fahiana | |
| Co-07-08-09 | | | García-Sánchez, Miguel Ángel | A7-II-P-THU-P2-19 | | |
| Common Person P | , , | | García-Segura Aleiandro | | | |
| Part | Gambaro, Sofia | | | | Ochinis, Aurene | |
| Complete | Courts Budge | | , 3 | | Georga, Stavroula | A3-P-TUE-P1-18 |
| Compage, Error Compage, Co | | | | | | C11-O-THU-PM2, |
| Compage Color | · | | | | Georgakilas, Alexandros | C11-O-THU-PM1, C11-O-THU-PM2 |
| Comparison Com | | | | | Georgakilas Vasileios | |
| Series George C2 C MON PM Series George C2 C MON PM Series George C3 C MON PM C4 | , , , | | · | | - | |
| Commons, Name Commons, Nam | | | | | - | |
| Control, John Service C2+71E/F1-1 Service, Information C1-71E/F1-1 Service, | | | | | 3 , | |
| Control, John July Control, July July Control, July July Control, July July Control, July July Control, Control, Sent July Control, Control, Sent July Control, Control, Sent July C | | | | | • . | |
| Control, Charler-More Control - | | | - | | ocorgano, Emmanoun | |
| Darbert Market | Gandia, Jose Javier | | · | | | C8-O-FRI-PM1, |
| Careed, Marker 12 - O TILE PMI Careed, Marker J. Marker J. Marker J. Marker J. Marker J. Careed, | Gandin, Charles-André | | Garner, Alistair | D1-O-THU-PM1 | Georgatis, Emmanuel | B10-O-WED-PM2, |
| Generics National Control, Filter Control, March | Gandrud, Knut Biarne | | Garner, Alistair J. W. | | | B10-P-TUE-P1-9, |
| Gerris, Change | . , | | Garrecht, Harald | E3-O-WED-PM2 | | C8-O-THU-PM2 |
| Carris, Ashiesh | | | Garrido, Oihane | C1-O-MON-PM2 | George, Easo | B8-P-THU-P2-11 |
| Getter, Eric Ex-P-TIBLP 2-5 Georgados, V. A5-P-TIBLP 2-1 Georgados, V. A5-P-TIBLP 2-1 Georgados, V. A5-P-TIBLP 2-1 Georgados, V. A5-P-TIBLP 2-2 | | | Garry, Guy | A7-II-P-THU-P2-7 | Georgiadou, D | C11-O-FRI-PM1 |
| Garding | | | Gärtner, Eric | E6-P-THU-P2-5 | Georgiadou, V. | A5-P-TUE-P1-13 |
| Sertico, Chorng B2-P-TUE-P1-12 Sertico, Eleri F3-P-TIEI-P2-6 Congregopoulos, Ray C1-O-WED-PM | | | Gärtnerová, Viera | B2-P-TUE-P1-2 | Georgilas, Konstantinos | C4-P-THU-P2-3 |
| Gaze, Junheng B2-0-WED-PMI Gaze, Joragory B3-0-WED-PMI Gaze, Jong B10-0-WED-PMI Gaze, Ano B10-0-WED-PMI Gaze, Ano B10-0-WED-PMI Gaze, Ano B10-0-WED-PMI Gaze, Sen B10-0-WED-PMI Gaze, Sen B10-0-WED-PMI Gaze, Sen B10-0-WED-PMI Gaze, Ga | | | Gartzou, Eleni | F3-P-THU-P2-6 | Georgiopoulos, Ilias | C1-O-WED-PM1 |
| Gaso, Min E3-H-WED AMZ Gasco, Ann B10-O-WED-AMZ Georgropoulou, A. F1-I/K-MON-PP | . • | | Garzel, Grzegorz | B8-O-WED-PM2 | Georgiopoulos, Panayiotis | A3-P-TUE-P1-16 |
| Case, Nong C10-0-WED-ANZ Case, None H2-P-UE-P1-2 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-1 Case, Sinen H2-P-UE-P1-2 Case, Sinen H2-P-UE-P1-2 Case, Sinen H2-P-UE-P1-2 Case, Sinen H2-P-UE-P1-2 Case, Sinen H | | | Gasco, Ana | B10-O-WED-AM2 | Georgopoulou, A. | F1-I/K-MON-PM1 |
| Cas, Sen H2-P-TUE-PI-2 Caspari, Roberto D2-H-WED-PMI, A5-0-HON-ABC Cardar, Jann-François A3-0-MON-ABC Caspari, Sabride D1-P-TUE-PI-2 Cast, Jean-Marie D4-O-WED-PMI Caso, Tieren D1-O-HU-PM2 Cast, Jean-Marie D4-O-WED-PMI D4-O-WED-PMI Cast, Jean-Marie D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D4-O-WED-PMI D | | | Gascoin, Franck | | Gerard, Jean-francois | A3-I/K-MON-PM1 |
| Gas, Siven B3-0-MON-M2 Gasperi, Gabriele DI-P-TUE-PI-17 Gerbadic, Claudio A7-IP-TUE-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-TU-PI-PI-TU-PI- | | | Gaspari, Roberto | | Gérard, Jean-François | A3-0-M0N-PM2 |
| Gar, Tao A7-I-P-TUE-PI-23 Gatt, Jean-Marie Di-O-WED-PM1 Gartiern Di-O-THU-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Irene E2-O-TUE-PW2 Gatto, Manuel Di-O-TUE-AW2 Gatdon, Manuel Di-O-TUE-AW2 Gatton, Manuel Di-O-TUE-AW2 Gatton, Manuel Di-O-TUE-PW2 Gatton, Manuel Di-O-T | | | Gasneri Gahriele | | Gerbaldi, Claudio | A7-II-P-THU-P2-24 |
| Gar, Tieren | | | • | | Gerlitzky, Christiane | C6-O-MON-PM2 |
| Gan, Xu H2-O-MON-PM2 GAUB, Roland XXX, H3-O-MON-M2 Gettinger, Christian B11-II/K-WED-M2 Gardius, Caterina C2+T-UE-AM2 GEV, Nathalie GEV, N | | | | | GERMAIN, Lionel | B11-O-WED-PM2 |
| Gardius, Vary F1-0-MON-AM2 Gaudius, Caterina G2-H-TUE-AM2 Gettinger, Christian B11-I/K-WED-P Gardius, Caston D3-H-WED-AM2 Gaudon, Manuel D4-0-TUE-AM2 GFZ, Nathale D9-0-TUE-PM2 Gardius, Caterina D4-0-TUE-AM2 GFZ, Nathale D9-0-TUE-PM2 Gardius, Caterina D4-0-TUE-AM2 GFZ, Nathale D9-0-TUE-PM2 Gardius, Maler E3-0-MON-AM2 Gardius, Maler E3-0-MON-AM2 Gardius, Maler E3-0-FRI-PM1 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler E4-0-WED-PM1 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-2 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-1 Gardius, Maler D1-P-TUE-P1-2 Gelas, | | | • | | Germann, Holger | D1-P-TUE-P1-10 |
| Garbarino, Gaston D3-H-WED-AM2 Gaudon, Manuel D4-0-TUE-AM2 Gardon, Manuel D4-0-TUE-AM2 Ghadbelgi, Hassan D9-0-TUE-PM2 Garcia Geltran, Discar B2-0-TUE-PM2 Gauthie, Michel D3-H-WED-PM1 Ghadbelgi, Hassan D4-0-WED-PM1 Garcia Geltran, Discar E6-0-FRI-PM1 Gauvin, Melanie D1-P-TUE-P1-2 Ghadbelgi, Hassan D4-0-WED-PM1 Garcia Ferre, Francisco E6-0-WED-PM1 Gavardinas, Joannis D. B10-0-MON-PM1 Ghardin, Bita B2-0-MIN-PM1 Garcia Ferre, Francisco E6-0-WED-PM2 Gavariilius, Asterios A2-0-WED-PM2 Ghardin, Almed C11-0-THU-PM1 Garcia Gonzalez, Marina B11-H-TUE-AM2 Gavrilius, Asterios A2-0-WED-PM1 Ghasemi Nanesa, Hadi B1-0-WED-PM1 Garcia Gonzalez, Marina B1-H-TUE-PM2 Gavrilov, Petr C2-P-TUE-P1-10 Ghasemi, Arsham D2-H-WED-AM2 Garcia, Gregorio A7-0-TUE-PM1 Gavrilova, Rositca A1-P-TUE-P2-1 Ghiban, Brandusa B8-P-THU-P2-2 Garcia, Joaquin D1-0-TUE-PM1 Gazeteumendi, Nerea F2-0-MON-PM2 Gelbana, Lutz Gelbana, Lutz Gelbana, Lutz | Gao, Xu | H2-O-MON-PM2 | GAUB, Roland | · · | Gettinger, Christian | B11-I/K-WED-AM2 |
| Garcia Gerardo C.4 - P.THU-P2-15 Gauto, Manuel D.4 - O-TUE-AMZ Garcia Geltran, Oscar B2-0 - TUE-PMZ Gauthe, Michel D.3 - H. WED-PM1 Garcia Geltran, Oscar B2-0 - TUE-PMZ Gauthie, Michel D.1 - P. TUE-P1-2 Garcia Geltran, Oscar B2-0 - TUE-PMZ Gauthie, Michel D.1 - P. TUE-P1-2 Garcia Geltran, Oscar Garcia Geltran, Oscar Garcia Geltran, Oscar B2-0 - TUE-PMZ Gavin, Melanie D.1 - P. TUE-P1-2 Garcia Genzia Gerardo Garcia Genzia | Garamus, Vasyl | F1-0-M0N-AM2 | Gaudiuso, Caterina | C2-H-TUE-AM2 | GEY, Nathalie | B11-O-WED-PM2, |
| Garcia Beltran, Oscar B2-O-TUE-PM2 Gauthier, Michel D3-H-WED-PM1 Garcia de Cortazar, Maider E6-O-FRI-PM1 Gavardinas, Ioannis D. B1O-O-MON-PM1 Garcia Ferre, Francisco E4-O-WED-PM1 Gavardinas, Ioannis D. B1O-O-MON-PM1 Garcia Ferre, Francisco E4-O-WED-PM2 Gavardinas, Ioannis D. B1O-O-MON-PM1 Garcia Ferre, Francisco E4-O-WED-PM2 Gavardinas, Ioannis D. B1O-O-MON-PM1 Garcia Ferre, Francisco E4-O-WED-PM2 Gavardinas, Ioannis D. B1O-O-MON-PM1 Garcia Ferre, Francisco E4-O-WED-PM2 Gavardinas, Ioannis D. Gavardinas, Ioann | Garbarino, Gaston | D3-H-WED-AM2 | Gaudon, Manuel | D4-O-TUE-AM2 | Chadhaini Hassan | |
| Garcia de Eltran, Uscar B2-0-10L-PMZ Gauthier, Michel D3-H-WED-PM1 Garcia Diaz, Maider E6-0-FRI-PM1 Gauvin, Melanie D1-P-TUE-P1-2 Ghaftari, Bita B2-0-MON-PM1 Garcia Ferre, Francisco E4-0-WED-PM1 Gavardinas, Ioannis D. B10-0-MON-PM1 Gharbaja, Jaafar B2-0-THU-PM1 Garcia Ferre, Francisco E4-0-WED-PM2 Gavarilius, Asterios A2-0-WED-PM2 Gharbaja, Jaafar B2-0-THU-PM1 Garcia Ferre, Francisco E4-0-WED-PM2 Gavrilius, Asterios A2-0-WED-PM2 Gharbaja, Jaafar B2-0-THU-PM1 Garcia Gonzalez, Marina B11-H-TUE-AM2 Gavrilius, Asterios A2-0-WED-PM2 Ghasemi Anneas, Hadi B1-0-WED-PM1 Garcia Gonzalez, Marina B1-H-TUE-PM2 Gavrilov, S. D9-0-TUE-PM1 Garcia Junon-Blanca, Esther B5-0-TUE-PM2 Gavrilov, S. D9-0-TUE-AM2 Ghibaudo, Gerard C11-P-THU-P2-1 Garcia, Joaquin D1-0-TUE-PM1 Gazeli, Johnsea H2-P-TUE-P1-11 Ghica, Daniela A5-0-TUE-PM2 Garcia, Juan-Manuel C6-0-MON-PM2 Garcia, Maria B3-P-TUE-P2- Geenta, Victor D9-P-TUE-P1-5 Ghida, Minai B3-P-TUE-P2- Geria, Maria B3-P-TUE-P2- Geenta, Victor D9-P-TUE-P1-5 Ghida, Minai B3-P-TUE-P1-2 Geria, Maria B3-P-TUE-P2- Geenta, Victor D9-P-TUE-P1-5 Ghida, Minai B1-P-TUE-P1-6 Geria, Maria B3-P-TUE-P2- Geenta, Victor D9-P-TUE-P1-5 Ghida, Minai B1-P-TUE-P1-6 Geria, Maria B3-P-TUE-P2- Geenta, Victor D9-P-TUE-P1-5 Ghida, Minai B1-P-TUE-P1-6 Geria, Maria B3-P-TUE-P2- Geenta, Victor D9-P-TUE-P1-5 Ghida, Minai B1-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-6 Geria, Maria B3-P-TUE-P1-7 Geria, Maria B3-P-TUE-P1-7 | Garces, Gerardo | C4-P-THU-P2-15 | Gault, Baptiste | E3-O-MON-AM2 | - | |
| Garcia Diz, Irene C11-0-FRI-PM1 Gavardinas, Ioannis D. B10-0-MON-PM1 Gharbiaja, Jaafar B2-0-THU-PM1 Gharbiaja, Ioannis D. Gharbaja, Jaafar B2-0-THU-PM1 Gharbia, Ioannis D. Gharbaja, Jaafar B2-0-THU-PM1 Gharbia, Ioannis D. Gharbaja, Jaafar B2-0-THU-PM1 Gharbia, Ioannis D. Gharbaja, Jaafar B2-0-THU-PM1 Gharbia, Ioannis D. Gharbaja, Jaafar B2-0-THU-PM1 Gharbia, Ioannis D. Gharbaja, Jaafar B2-0-THU-PM1 Gharbaja, Jaafar B2-0-THU-PM | Garcia Beltran, Oscar | B2-O-TUE-PM2 | Gauthier, Michel | D3-H-WED-PM1 | • | |
| Garcia Ferre, Francisco E4-0-WED-PM1 Gavgali, Mehmet B10-0-THU-PM1 Garcia Ferre, Francisco E4-0-WED-PM2 Gavrilluis, Asterios A2-0-WED-PM2 Garcia Gonzalez, Marina B11+T-UE-AM2 Gavrilluis, Alexander B3-0-WED-PM1 Ghasemi Nanesa, Hadi B1-0-WED-PM2 Garcia Gonzalez, Marina B11+T-UE-AM2 Gavrilluis, Alexander B3-0-WED-PM1 Ghasemi Nanesa, Hadi B1-0-WED-PM2 Garcia Gonzalez, Marina B5-0-TUE-AM2 Gavrilov, Petr C2-P-TUE-P1-10 Ghasemi, Arsham D2-H-WED-AM2 Garcia Tunon-Blanca, Esther B5-0-TUE-AM2 Gavrilov, Rositca A1-P-THU-P2-1 Ghibando, Gerard C11-P-THU-P2-1 Garcia, Ana F1-0-TUE-PM1 Garcia, Joaquin D1-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 Ghizando, Gerard C11-P-THU-P2-1 Garcia, Joaquin D1-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 Ghizando, Gerard C11-P-THU-P2-P1-P1-P2-P1-P1-P2-P1-P2-P1-P2-P1-P2-P1-P2-P1-P2-P1-P2-P1-P1-P2-P1-P2-P1-P1 | García de Cortázar, Maider | E6-0-FRI-PM1 | Gauvin, Melanie | D1-P-TUE-P1-2 | | |
| Gardia Ferré, Francisco E4-U-WED-PM2 Gavilidis, Asterios A2-O-WED-PM2 Gavilidis, Asterios A2-O-WED-PM2 Gavilidis, Asterios A2-O-WED-PM2 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Ghasemi Nanesa, Hadi B1-O-WED-PM1 Gasemi Nanesa, Hadi B1-O-WED-PM1 Ghase | García Díaz, Irene | C11-O-FRI-PM1 | Gavardinas, Ioannis D. | B10-0-M0N-PM1 | | |
| Garcia Gonzalez, Marina Garcia Gonzalez, Marina B11-H-TUE-AM2 Gavrilluk, Alexander Gavrilov, Petr Gavrilov, Petr Gavrilov, S. Gavrilov, S. Gavrilovo, S. Govrilovo, S. Golibando, Geardd Ci11-P-THU-P2-1 Golibado, Geardd Ci11-P-THU-P2-1 Golibado, Geardd Ci11-P-THU-P2-1 Ghibado, Geardd Ci11-P-THU-P2-1 Ghibado, Geardd Ci11-P-THU-P2-1 Ghibado, Geardd Ci11-P-THU-P2-1 Ghibado, Geardd Ci11-P-THU-P2-1 Ghibado, Geardd Ci11-P-THU-P2-1 Ghibado, Geardd Ci11-P-THU-P2-1 Ghibado, Geardd Ghibado, Geardd Ghibado, Geardd Ghibado, Geardd Ghibado, Geardd Ghibado, Geardd Ghibado, Geardd Ghibado, Geardd Ghibadoo, Geardd Ghibadoo, Geardd Ghibado | Garcia Ferre, Francisco | E4-0-WED-PM1. | Gavgali, Mehmet | B10-0-THU-PM1 | | |
| Garcia Gutiérrez, Mari Cruz A7-H-TUE-PM2 Gavrilov, Petr C2-P-TUE-P1-10 Ghasemi, Arsham D2-H-WED-AM2 Garcia Tunon-Blanca, Esther B5-0-TUE-AM2 Gavrilov, S. D9-0-TUE-AM2 Ghiban, Brandusa B8-P-THU-P2-1 Garcia, Ana F1-0-TUE-PM1 Gavrilova, Rositca A1-P-THU-P2-1 Ghibando, Gerard C11-P-THU-P2 Garcia, Gregorio A7-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 Ghibando, Gerard C11-P-THU-P2 Garcia, Joaquin D1-0-TUE-PM1 Gazelumendi, Nerea F4-0-M0N-PM2 Ghibando, Gerard A5-0-TUE-PM1 Garcia, Joaquin D1-0-TUE-PM1 Gazelumendi, Nerea F4-0-M0N-PM2 Ghidini, Tommaso A6-0-THU-PM2 Garcia, José B10-0-TUE-PM2 Geanta, Victor D9-P-TUE-P1-5 Ghiorghiu, F. E4-0-TUE-PM2 Garcia, Marcela F2-P-HU-P2-7 Geelhaar, Lutz D1-0-TUE-AM2 Ghita, Mihai B8-P-THU-P2-1 Garcia, Oriane C4-0-THU-PM1 Geiger, Dorin E2-0-MON-AM2 Ghobadi, Ehsan D10-0-THU-PM2 Garcia-Rajular, Jaime B5-0-MON-AM2 Geiger, Dorin E2-0-TUE-P1-2 | Garcia Ferré, Francisco | E4-0-WED-PM2 | Gavriilidis, Asterios | A2-O-WED-PM2 | Ghasem Zadeh Khorasani, Media | D2-O-THU-PM1 |
| Garcia Tunon-Blanca, Esther B5-0-TUE-AM2 Gavrilov, S. D9-0-TUE-AM2 Ghiban, Brandusa B8-P-THU-P2-1 García, Ana F1-0-TUE-PM1 Gavrilova, Rositca A1-P-THU-P2-1 Ghibaudo, Gerard C11-P-THU-P2-1 García, Gregorio A7-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 Ghica, Daniela A5-0-TUE-PM2 García, Joaquín D1-0-TUE-PM1 Gaztelumendi, Nerea F4-0-MON-PM2 Ghidini, Tommaso A6-0-THU-PM2 García, Juan-Manuel C6-0-MON-PM2 Geanta, Victor D9-P-TUE-P1-5 Ghiorghiu, F. E4-0-TUE-PM2 García, Marcela F2-P-THU-P2-7 Geelhaar, Lutz D1-0-TUE-AM2 Ghita, Mihai B8-P-TUE-P1-2 García, Oriane C4-0-THU-PM1 Geers, Marc D4-0-MON-AM2, D4-0-WED-PM1 Ghobadi, Ehsan D10-0-THU-PM2 García-Aguitar, Jaime B9-0-TUE-PM2 Geiger, Dorin E2-0-MON-AM2 Ghobadi, Ehsan Ghobadi, Ehsan D10-0-THU-PM2-PTUE-PT-26, D6-0-FRI-PM1, Ghosh, Abhijit Ghosh, Abhijit B10-0-THU-PM2-PTUE-PT-26, D6-0-FRI-PM1, Ghosh, Abhijit Ghosh, Abhijit B10-0-THU-PM2-PTUE-PTUE-PTUE-PTUE-PTUE-PTUE-PTUE-PTUE | Garcia Gonzalez, Marina | B11-H-TUE-AM2 | Gavriliuk, Alexander | D3-O-WED-PM1 | Ghasemi Nanesa, Hadi | B1-0-WED-PM2 |
| García, Ana F1-0-TUE-PM1 Gavrilova, Rositca A1-P-THU-P2-1 García, Gregorio A7-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 García, Joaquín D1-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 García, Joaquín D1-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 García, Joaquín García, José B10-0-TUE-PM2 Geandier, Guillaume B1-H-TUE-PM2 García, Juan-Manuel C6-0-MON-PM2 Geardia, Victor D9-P-TUE-P1-5 García, Marcela F2-P-THU-P2-7 Geelhaar, Lutz D1-0-TUE-AM2 García, Oriane C4-0-THU-PM1 García, Oriane C4-0-THU-PM1 García, Oriane C4-0-THU-PM2 Geiger, Dorin Geiger, Dorin Geiger, Dorin Geiger, Dorin García-Aguilar, Jaime B5-0-MON-AM2 Gelb, Jeff Gelb, Jeff Ghibado, Gerard C11-P-THU-P2-1 Ghica, Daniela A5-0-TUE-PM2 Ghidini, Tommaso C4-0-HU-PM2 Ghidini, Tommaso C4-0-HU-PM2 Ghidini, Tommaso C4-0-WED-PM2 Ghidini, Tommaso C4-0-WED-PM2 Ghidini, Tommaso C4-0-WED-PM2 Ghidini, Tommaso C4-0-WED-PM3 Ghida, Mihai B8-P-TUE-P1-5 Ghobadi, Ehsan D10-0-THU-PM2 Ghobadi, Ehsan D10-0-THU-PM2 Ghobadi, Ehsan D10-0-THU-PM3 Ghobadi, Ali Ghosh Chowdhury, Sandip B10-0-WED-PM1 Ghosh Chowdhury, Sandip B10-0-WED-PM1 Ghosh, Abhijit B10-0-WED-PM1 García-Fmbid Sonia | García Gutiérrez, Mari Cruz | A7-H-TUE-PM2 | Gavrilov, Petr | C2-P-TUE-P1-10 | Ghasemi, Arsham | D2-H-WED-AM2 |
| García, Gregorio A7-0-TUE-PM1 Gazeli, Odhisea H2-P-TUE-P1-11 Ghica, Daniela A5-0-TUE-PM1 García, Joaquín D1-0-TUE-PM1 Gaztelumendi, Nerea F4-0-M0N-PM2 Ghidia, Daniela A5-0-TUE-PM1 García, José B10-0-TUE-PM2 Geandier, Guillaume B1-H-TUE-PM2 Ghidini, Tommaso C4-0-WED-PM García, Juan-Manuel C6-0-MON-PM2 Geanta, Victor D9-P-TUE-P1-5 Ghita, Mihai B8-P-THU-P2-P1-2 García, María B3-P-TUE-P1-2 Geelhaar, Lutz D1-0-TUE-AM2 Ghita, Mihai B8-P-THU-P2-P1-P1-P1-P1-P1-P1-P1-P1-P1-P1-P1-P1-P1- | Garcia Tunon-Blanca, Esther | B5-0-TUE-AM2 | Gavrilov, S. | D9-O-TUE-AM2 | Ghiban, Brandusa | B8-P-THU-P2-4 |
| García, Joaquín D1-0-TUE-PM1 Gaztelumendi, Nerea F4-0-MON-PM2 Ghidini, Tommaso A6-0-THU-PM2 García, José B10-0-TUE-PM2 Geandier, Guillaume B1-H-TUE-PM2 Ghidini, Tommaso C4-0-WED-PM García, Juan-Manuel C6-0-MON-PM2 Geanta, Victor D9-P-TUE-P1-5 Ghiorghiu, F. E4-0-TUE-PM2 García, Marcela F2-P-THU-P2-7 Geelhaar, Lutz D1-0-TUE-AM2 Ghita, Mihai B8-P-TU-P-P1-P1-P1-P1-P1-P1-P1-P1-P1-P1-P1-P1-P | García, Ana | F1-0-TUE-PM1 | Gavrilova, Rositca | A1-P-THU-P2-1 | Ghibaudo, Gerard | C11-P-THU-P2-3 |
| Garcia, José B10-0-TUE-PM2 Geandier, Guillaume B1-H-TUE-PM2 Ghidini, Tommaso CC4-0-WED-PM Garcia, Juan-Manuel C6-0-MON-PM2 Geanta, Victor D9-P-TUE-P1-5 Ghidray, F: E4-0-TUE-PM2 Garcia, Marcela F2-P-THU-P2-7 Geelhaar, Lutz D1-0-TUE-AM2 Ghita, Mihai B8-P-THU-P2-1-E-P1-E-P1-E-P1-E-P1-E-P1-E-P1-E-P1 | García, Gregorio | A7-0-TUE-PM1 | Gazeli, Odhisea | H2-P-TUE-P1-11 | Ghica, Daniela | A5-O-TUE-PM1 |
| Garcia, José B10-0-TUE-PM2 Geandier, Guillaume B1-H-TUE-PM2 CL-0-WED-PM2 Garcia, Juan-Manuel C6-0-MON-PM2 Geanta, Victor D9-P-TUE-P1-5 Ghiorghiu, F. E4-0-TUE-PM2 Garcia, Marcela F2-P-THU-P2-7 Geelhaar, Lutz D1-0-TUE-AM2 Ghita, Mihai B8-P-THU-P2-M2-P1-EP1-EP1-EP1-EP1-EP1-EP1-EP1-EP1-EP1- | García, Joaquín | D1-O-TUE-PM1 | Gaztelumendi, Nerea | F4-0-M0N-PM2 | Ghidini Tommaso | A6-O-THU-PM2, |
| Garcia, Marcela F2-P-THU-P2-7 Geelhaar, Lutz D1-O-TUE-AM2 Ghita, Mihai B8-P-THU-P2-7 H2-P-TUE-P1-5 Garcia, María B3-P-TUE-P1-2 Garcia, Oriane Geelhaar, Lutz D4-O-MON-AM2, D4-O-WED-PM1 Ghobadi, Ehsan D10-O-THU-PM D5-O-THU-PM GARCIA, Philip D9-O-TUE-PM2 Geiger, Dorin E2-O-MON-AM2 Ghodrat, S. B10-P-TUE-P1-2 García-Aguilar, Jaime B5-O-MON-AM2 Geiger, Dorin E2-P-TUE-P1-24 Ghotinia, Ali B10-O-TUE-AM García-Aguilar, Jaime B5-O-MON-AM2 D6-O-FRI-PM1, D10-O-WED-PM1, Gracía-Embid Sonia Ghosh, Abhijit B10-THU-PM2 García-Fmbid Sonia E2-O-TUE-PM2 Ghosh, Abhijit B1-O-THU-PM2 | Garcia, José | B10-0-TUE-PM2 | Geandier, Guillaume | B1-H-TUE-PM2 | | C4-O-WED-PM1 |
| Garcia, María B3-P-TUE-P1-2 Geenaar, Lutz D1-0-UE-AMZ Ghita, Minai H2-P-TUE-P1-5 | Garcia, Juan-Manuel | C6-O-MON-PM2 | Geanta, Victor | D9-P-TUE-P1-5 | Ghiorghiu, F. | E4-0-TUE-PM2 |
| García, María B3-P-TUE-P1-2 Geers, Marc D4-0-MON-AM2, D4-0-WED-PM1 Ghobadi, Ehsan D10-0-THU-PM D5-0-THU-PM GARCIA, Philip D9-0-TUE-PM2 Geiger, Dorin E2-0-MON-AM2 Ghodadi, Ehsan B10-P-TUE-P1-PM García-Aphilippe D9-1/K-WED-PM2 Geiger, Dorin E2-P-TUE-P1-24 Gholadi, Ehsan B10-P-TUE-P1-PM García-Aguilar, Jaime B5-0-MON-AM2 Geiger, Dorin E2-P-TUE-P1-24 Gholadi, Ehsan B10-P-TUE-P1-PM García-Aguilar, Jaime B5-0-MON-AM2 Gholadi, Ehsan Ghodadi, Ehsan B10-P-TUE-P1-PM García-Aguilar, Jaime B5-0-MON-AM2 Gholadi, Ehsan Ghodadi, Ehsan B10-P-TUE-P1-PM García-Aguilar, Jaime B5-0-MON-AM2 Gholadi, Ehsan Ghodrat, S. B10-P-TUE-PM García-Aguilar, Jaime B5-0-MON-AM2 Gholnia, Ali B10-O-WED-PM García-Blanco, M. Belén C1-0-MON-PM2 Gelb, Jeff Ghodnat, S. Ghodnat, S. García-Aguilar, Jaime B5-0-MON-AM2 Ghodnat, S. Ghodnat, S. Ghodnat, S. Ghodnat, S. Ghodnat, S. Ghodnat, S. Ghodnat, S. | Garcia, Marcela | F2-P-THU-P2-7 | Geelhaar, Lutz | D1-0-TUE-AM2 | Ghita, Mihai | B8-P-THU-P2-4, H2-P-TUE-P1-5 |
| Garcia, Oriane C4-0-THU-PM1 D4-0-WED-PM1 Ghobadi, Ensan D5-0-THU-PM1 GARCIA, Philip D9-0-TUE-PM2 Geiger, Dorin E2-0-MON-AM2 Ghodrat, S. B10-P-TUE-P1-24 Garcia-Aguilar, Jaime D5-0-MON-AM2 Geiger, Dorin E2-P-TUE-P1-24 Gholinia, Ali B10-0-TUE-AM Garcia-Aguilar, Jaime B5-0-MON-AM2 D6-0-FIR-PM1, Ghosh Chowdhury, Sandip B10-0-WED-PM1, Garcia-Embid Sonia E2-0-WED-PM1 E2-0-TUE-PM2 Ghosh, Abhijit B1-0-THU-PM2 | García, María | B3-P-TUE-P1-2 | Geers, Marc | · | 01-1-17-51- | D10-0-THU-PM2, |
| Garcia, Philippe D9-I/K-WED-PM2 Geiger, Dorin E2-P-TUE-P1-24 Gholinia, Ali B10-0-TUE-AM García-Aguilar, Jaime B5-0-MON-AM2 D1-P-TUE-P1-26, D6-0-FRI-PM1, Ghosh Chowdhury, Sandip B10-0-WED-PM1, Ghosh, Abhijit B1-0-TIU-PM2 García-Embid Sonia F2-0-WED-PM1 | Garcia, Oriane | C4-O-THU-PM1 | | | Gnobadi, Ehsan | D5-O-THU-PM1 |
| García-Aguilar, Jaime B5-0-MON-AM2 García-Blanco , M. Belén C1-0-MON-PM2 García-Embid Sonia F2-0-WF0-PM1 García-Fmid Sonia F2-0-WF0-PM1 García-Fmid Sonia F2-0-WF0-PM1 García-Fmid Sonia F2-0-WF0-PM1 E2-0-TUE-PM2 Globinia, Au B10-0-10E-AM Ghosh Chowdhury, Sandip B10-0-WE0-PN Ghosh, Abhijit B1-0-TIUF-PM E2-0-TUE-PM2 | GARCIA, Philip | D9-O-TUE-PM2 | | | Ghodrat, S. | B10-P-TUE-P1-16 |
| García-Agullar, Jaime B5-U-MUN-AMZ García-Blanco , M. Belén C1-O-MON-PM2 Gelb, Jeff D10-O-WED-PM1, Ghosh, Abhijit B1-O-TIUF-PM2 García-Embid Sonia F2-O-WED-PM1 E2-O-TUE-PM2 B11-O-TIUF-PM | Garcia, Philippe | D9-I/K-WED-PM2 | Geiger, Dorin | | Gholinia, Ali | B10-0-TUE-AM2 |
| García-Blanco , M. Belén C1-0-M0N-PM2 Gelo, Jeπ D10-0-WED-PM1, Ghosh, Abhijit B1-0-THU-PM2 García-Embid Sonia Ε2-0-WED-PM1 Ε2-0-TUE-PM2 Β11-0-TIJE-PM | García-Aguilar, Jaime | B5-0-M0N-AM2 | 0.11.1.11 | | Ghosh Chowdhury, Sandip | B10-0-WED-PM1 |
| | García-Blanco , M. Belén | C1-O-MON-PM2 | Gelb, Jeff | D10-0-WED-PM1, | Ghosh, Abhijit | B1-0-THU-PM2 |
| Ghosh, Pradipta B4-0-FRI-PM1 | García-Embid, Sonia | F2-0-WED-PM1 | | E2-O-TUE-PM2 | Ghosh, Pradipta | B11-O-TUE-PM1, |

| Choch Sandaan | D2-H-WED-PM1 | Gichart Migual | F2-P-THU-P2-6 | Cámoz-Mancoho Rolán | C2-P-TUE-P1-1 |
|------------------------------|--------------------------------|--|----------------------------------|-----------------------------|-----------------------------------|
| Ghosh, Sandeep | B7-0-THU-AM2, | Gisbert, Miguel Gisbert-Garazán, Manuel | F2-P-THU-P2-7 | Gómez-Mancebo, Belén | A1-P-THU-P2-5, |
| Ghysels, An | D10-O-FRI-PM1 | Gisbert-Garzarán, Miguel | F2-0-TUE-AM2 | Gonçalves, Gil | F2-0-WED-PM1 |
| Giacco, Daniela | E2-0-M0N-PM1 | | D4-0-WED-PM2, | Goncalves, Jordana | C4-O-THU-PM1 |
| Giacobbe, Carlotta | D1-O-FRI-PM1 | Gitman, Inna | D4-O-WED-PM2 | Gong*, ShengKai | B3-0-TUE-AM2 |
| Giacomazzi, Luigi | C11-P-THU-P2-10 | Gitman, Mikhail | D4-O-TUE-PM2 | Gong, Peng | B1-H-THU-PM2 |
| Giacometti, G. | E4-P-THU-P2-1, E4-O-WED-PM2 | Giuliani, Finn | D4-O-MON-PM1, B5-O-TUE-AM2 | Gong, Shengkai | B3-O-MON-PM1, B3-O-MON-PM1 |
| Giamini, Sigiava | C11-I/K-FRI-AM2 | Giulieri, Francoise | A3-0-TUE-AM2 | Gong, Shengkai | B3-0-MON-PM1 |
| Giammusso , Rosario | D9-P-TUE-P1-11 | . , | C5-0-THU-PM2, | Gong, X. | D9-0-TUE-AM2 |
| Giannakas, Aris | A3-0-MON-PM2 | Giuranno, Donatella | C5-O-THU-PM2 | Gonzales, Diego | A7-I-P-TUE-P1-11 |
| , | B11-0-M0N-PM2, | Gjoka, Margariti | A2-0-THU-PM1, | Gonzáles, G.L.G. | B10-0-TUE-AM2 |
| Giannakopoulos, Antonios | D4-P-TUE-P2-10 | , . , | A2-P-THU-P2-7 | Gonzalez, Alvaro | D8-P-TUE-P1-12 |
| Giannakopoulos, Antonios E. | B10-0-M0N-PM1 | Gkanatsiou, Alexandra | D2-P-TUE-P1-22 | González, Beatriz | B3-P-TUE-P1-2 |
| Giannakopoulos, Konstantinos | C11-P-THU-P2-7 | Gkanatsiou, Christina | A5-P-TUE-P1-10 B10-0-M0N-PM2, | • | F3-0-WED-PM2, |
| Giannakopoulos, Kostas | A7-0-THU-AM2, | Gkatzogiannis, Stefanos | C6-O-TUE-PM1 | González, Blanca | F1-P-TUE-P1-3 |
| Giannelis , Emmanuel P. | D2-P-TUE-P1-18 XXX | Gkertsiou, Panagiota | F1-0-M0N-PM1 | González, D. | D2-O-THU-AM2 |
| Gianneta, Violetta | E3-P-TUE-P1-19 | Gkertsiou, Panagiwta | F1-P-TUE-P1-13, | González, Mireia B. | D2-O-TUE-PM2 |
| Giannini, Cinzia | D2-H-WED-PM1 | okerisiou, runugiwia | F1-0-M0N-PM1 | Gonzalez, Rafael | D8-P-TUE-P1-12 |
| Giannopoulos, George | D2-O-WED-PM2 | Gkikas, Nicolaos | B10-O-WED-PM2, C8-P-THU-P2-20 | Gonzalez, Yoandry | C1-O-THU-PM1 |
| Giannopoulos, Iason | C11-O-THU-PM2 | Glackin, Carlotta | F3-0-THU-AM2 | González-Calbet, José María | A7-II-P-THU-P2-1 |
| olalilopodios, lasoit | H2-O-MON-AM2, | Glatzel, Pieter | D1-P-TUE-P1-17 | González-elipe, Agustin R. | C1-H-THU-PM1 |
| Giannopoulou, Ioanna | H2-O-TUE-AM2 | | C1-O-FRI-PM1, | Gonzalez-Fernandez, Africa | F3-0-THU-PM1 |
| Giannopoulou, Ioanna | H2-O-TUE-AM2 | | B3-O-TUE-PM1, | Gonzalez-Moragas, Laura | F2-0-WED-AM2 |
| Giannoukas, Athanasios D. | B10-0-M0N-PM1 | | D5-H-FRI-AM2, B8-O-WED-PM1, | González-Piñeiro, Silvia | F3-0-WED-PM2 |
| Giannousi, Kleoniki | A5-P-TUE-P1-9 | Clotzal Iliua | B8-P-THU-P2-2, | Gonzalo, Jose | D1-O-WED-PM2 |
| Gianolio, Diego | D1-P-TUE-P1-23 | Glatzel, Uwe | C1-O-WED-PM1, | Goodall, Russell | D8-O-FRI-AM2 |
| Gianotti, Valentina | B7-0-FRI-PM1 | | B3-0-WED-PM2, B10-0-WED-AM2, | Goodenough, John B. | E2-0-M0N-PM2 |
| Giansante, Carlo | A5-H-WED-PM1 | | B8-O-THU-PM2, | Goodwin, Andrew Leslie | B7-0-THU-AM2 |
| Giapintzakis, Ioannis | E3-P-TUE-P1-4 | | B8-H-THU-PM1 | Goral, Anna | B8-O-WED-PM2 |
| | E3-0-WED-AM2, | Glechner, Thomas | C1-H-MON-AM2 | Góral, Anna | C3-P-THU-P2-14 |
| Giapintzakis, Ioannis | E3-P-TUE-P1-14 | Gleinig, Johannes | C8-O-THU-AM2 | Gorantla, S. | E3-H-WED-PM1 |
| Giapintzakis, J. | E3-P-TUE-P1-3 | Glensk, Albert | B1-O-FRI-AM2 | Gorban, Viktor | B8-P-THU-P2-13 |
| Giasafaki, Dimitra | F2-P-THU-P2-6 | Glogic, Edis | C11-O-FRI-AM2, H3-O-MON-AM2 | | D9-O-TUE-AM2, |
| Giaume, Domitille | E2-0-TUE-PM2 | | B1-0-THU-AM2, | Gorbatov, Oleg | D8-O-THU-PM2, |
| GIBOT, Pierre | C3-O-THU-PM2 | Gloriant, Thierry | F4-0-MON-PM2, | | D8-P-TUE-P1-9 A7-I-P-TUE-P1-2, |
| Gibson, Tomas | A7-I-P-TUE-P1-17 | | B2-O-WED-PM1 | Gordeyeva, Korneliya | A7-0-WED-PM1 |
| Gierlotka, Stanislaw | C3-P-THU-P2-3, | Gloter, A. | A8-O-MON-PM1 | Gordin, Doina-Margareta | F4-0-M0N-PM2 |
| | B4-0-THU-AM2 | Glukharev, Artyom | B5-P-TUE-P1-22 | | F4-0-M0N-AM2, |
| Giesbers, Merijn | C2-O-MON-AM2 | Gniełczyk , Marek | A1-0-FRI-AM2 | Gordo, Elena | F1-P-TUE-P1-9, B5-O-MON-AM2 |
| Gigli, Jiabril | E2-P-TUE-P1-4 | Gniełczyk, Marek | B10-0-M0N-AM2, B11-0-TUE-PM2 | Gorel, Gokhan | C8-P-THU-P2-4 |
| Gil, Aleksander | B3-0-THU-AM2 | Go, Yohan | B2-0-WED-AM2 | Gorelli, Federico | D3-0-WED-PM1 |
| Gil, Lorena | B5-P-TUE-P1-13 | Goberna Ferrón, Sara | B9-0-THU-PM2 | Gorkunov, Edward | B1-P-THU-P2-16 |
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| Kastner, Johann | B2-0-TUE-PM1 | | E4-P-THU-P2-7 | Kim, In Soo | B3-O-MON-AM2 |
| | | Kelessidis, Vassilios C. | A7-II-P-THU-P2-2 | Kim, J.H. | D10-O-WED-PM2 |
| Kastrinaki, Georgia | E2-O-MON-PM1 | Keller, Clément | B8-0-THU-AM2 | Kim, Jae-Ha | B11-P-TUE-P1-10 |
| Kaszyca, Kamil | B6-P-TUE-P1-3 | | D2-P-TUE-P1-8, | Kim, Jaemin | D4-0-M0N-PM1 |
| Katapodis, Petros | A3-O-MON-PM2 | Keller, Sascha | A2-P-THU-P2-9, | Kim, Jihoon | B1-O-WED-AM2 |
| Katerinopoulou, D. | C1-II-P-THU-P2-7 | K II . O . I | D2-O-MON-AM2 | Kim, Jin Kon | A9-I/K-THU-PM2 |
| Katis, Ioannis | C2-O-MON-PM2 | Keller, Sascha | A2-H-THU-AM2 | Kim, Jong Il | B2-O-WED-AM2 |
| Kato, Hidemi | F1-P-TUE-P1-16 | Kelley, Chris | B7-0-WED-PM2 | Kim, JongDeok | C7-O-TUE-PM2 |
| Kato, Masahiko | C1-O-TUE-PM2 | Kellezi, Gert | C3-O-THU-PM1 | Kim, Joonsoo | E2-O-TUE-AM2 |
| Katranidis, Vasileios | C1-II-P-THU-P2-11 | Kelsall, Geoff | H2-P-TUE-P1-10 | Kim, Jung Gi | B4-P-THU-P2-7 |
| Katsiaounis, Stavros | C11-O-FRI-AM2 | Kempe, Philippe | D4-0-TUE-PM1 | | A3-0-M0N-AM2 |
| Material Mark | D1-P-TUE-P1-1, | Kenesei, Peter | D1-0-THU-PM1 | Kim, Keun Su | |
| Katsikini, Maria | D1-P-TUE-P1-15 | Kenzari, Samuel | C4-0-THU-PM2 | Kim, Kyou-Hyum | C3-P-THU-P2-5 |
| Katsiropoulos, Christos | B6-O-TUE-PM1 | Kepaptsoglou, Demie | D2-H-WED-AM2 | Kim, Kyou-Hyun | C3-P-THU-P2-2 |
| Katter, Matthias | H1-I/K-TUE-AM2 | Kanantanalau Dannaina Maria | E3-P-TUE-P1-20, | Kim, KyoungSik | B6-P-TUE-P1-31 |
| Katuri, Krishna | E1-0-TUE-PM1 | Kepaptsoglou, Despoina Maria | E3-P-TUE-P1-22 | Kim, Kyoung-Wook | C3-P-THU-P2-5 |
| Katzensteiner, Andreas | B4-0-FRI-PM1 | Kerber, Michael | B11-0-TUE-PM1 | Kim, Kyungwook | C3-P-THU-P2-2 |
| Kauffmann, Alexander | B8-O-WED-PM1 | Kermanidis, Alexis | B1-0-TUE-PM1 | Kim, Se-jong | B2-0-WED-AM2 |
| Kaufmann, Heinz | B10-0-TUE-PM1 | Kermouche, Guillaume | D4-0-TUE-PM1 | Kim, Seongwoo | B1-0-THU-AM2 |
| | C4-O-WED-PM2, | Kerscher, Eberhard | B11-0-M0N-AM2 | Kim, Seong-Woong | D4-O-MON-PM1 |
| | D1-P-TUE-P1-26, | Kertsch, Lukas | D5-O-THU-PM2 | Kim, Seung Eon | B2-O-WED-PM1 |
| Kautschor, Lars-Oliver | D1-O-WED-PM1, | Kesikidou, Fotini | B5-0-TUE-PM1 | Kim, Seung-Eon | D4-O-MON-PM1 |
| | D6-O-FRI-PM1, D10-O-WED-PM1, | | B7-0-THU-PM2, | Kim, Sun-joong | H2-O-MON-PM2 |
| | E2-O-TUE-PM2 | Keskin, Seda | B7-P-THU-P2-1 | Talli, Sull Joong | E4-0-WED-PM1, |
| Kavanagh, John | A8-O-MON-PM1 | Kessels, W. M. M. | E2-0-TUE-PM1 | Kim, Tae Kyu | C4-O-THU-PM2 |
| KAVANAGH, JOHN | E3-O-MON-PM1 | Kessels, W.M.M. | E2-0-TUE-PM1 | Kim, Yong Hwan | C1-II-P-THU-P2-4 |
| · | H2-P-TUE-P1-6, | Kessler, Michael | H1-H-MON-PM2 | Kim, Yongdae | C9-P-THU-P2-5 |
| Kavouras, Panagiotis | D2-P-TUE-P1-20 | Kessler, Vadim G. | E3-P-TUE-P1-5 | | C3-P-THU-P2-5, |
| Kavouras, Panagiotis | D4-P-TUE-P2-2 | Kestens , L.A.I. | B10-P-TUE-P1-16 | Kim, Yong-Dae | C9-P-THU-P2-6 |
| Kawabata Ota, Mie | B11-P-TUE-P1 | | | Kim, Yong-Dae | C3-P-THU-P2-2 |
| Kawada, Satoshi | B5-P-TUE-P1-16 | Kestens, Leo | B11-0-WED-PM2 | Kim, Yong-In | C3-P-THU-P2-5 |
| Kawada, Tatsuya | E1-I/K-TUE-AM2 | Kestler, Heinrich | C6-O-TUE-AM2 | Kim, Yong-Sang | C1-O-FRI-AM2 |
| | | Khabarova, Irina | C1-O-FRI-PM1 | , | B2-O-FRI-AM2, |
| Kawalla, R. | C6-O-MON-PM2 | Khalfallah, Omar | D10-I-P-TUE-P1-1 | Kim, Young Min | B2-O-WED-AM2, |
| Kawamura, Yoshihito | D3-O-WED-PM2 | Khalfaoui, Walid | B10-H-TUE-PM1 | | B2-O-FRI-AM2 |
| Kawasaki, Megumi | B11-0-TUE-PM2 | Khan, Mohammad | C4-0-THU-PM2 | Kim, Zaeill | A6-I-P-TUE-P1-2 |
| | F6-P-THU-P2-4 | Khan, Raja | C4-P-THU-P2-3 | Kim, Zaill | A6-I-P-TUE-P1-3 |
| Kawashima, Norimichi | 101 1110 12 4 | | E6-0-FRI-AM2 | Kimiskidis, Vasilios | A2-P-THU-P2-6 |
| Kawashima, Norimichi Kawatsuki, N | D1-P-TUE-P1-19 | Khan, Samrin | | | |
| | | Khan, Samrin | | Kimura Akibika | D9-I/K-MON-PM1, |
| Kawatsuki, N | D1-P-TUE-P1-19 | Khan, Samrin Kharanzhevskiy, Evgeny | C8-P-THU-P2-18, E2-P-TUE-P1-13 | Kimura, Akihiko | D9-I/K-MON-PM1, B1-P-THU-P2-17 |
| Kawatsuki, N Kaya, Ali Can | D1-P-TUE-P1-19 B11-O-TUE-PM1 | | C8-P-THU-P2-18, | Kimura, Akihiko Kimura, Hideo | |
| Kawatsuki, N Kaya, Ali Can Kaya, Sarp Kaya, Seray | D1-P-TUE-P1-19 B11-O-TUE-PM1 E3-O-TUE-AM2 | Kharanzhevskiy, Evgeny | C8-P-THU-P2-18, E2-P-TUE-P1-13 | Kimura, Hideo | B1-P-THU-P2-17 D3-P-THU-P2-5 C5-P-THU-P2-1, |
| Kawatsuki, N Kaya, Ali Can Kaya, Sarp | D1-P-TUE-P1-19 B11-O-TUE-PM1 E3-O-TUE-AM2 F1-O-TUE-PM1 | Kharanzhevskiy, Evgeny Kheifets, Olga Khenfer, Khadidja | C8-P-THU-P2-18, E2-P-TUE-P1-13 B6-P-TUE-P1-14 | Kimura, Hideo Kimura, Kazushi | B1-P-THU-P2-17 D3-P-THU-P2-5 C5-P-THU-P2-1, C1-I-P-TUE-P1-3 |
| Kawatsuki, N Kaya, Ali Can Kaya, Sarp Kaya, Seray | D1-P-TUE-P1-19 B11-O-TUE-PM1 E3-O-TUE-AM2 F1-O-TUE-PM1 C11-O-THU-PM1, | Kharanzhevskiy, Evgeny Kheifets, Olga Khenfer, Khadidja Kheradmand, Nousha | C8-P-THU-P2-18, E2-P-TUE-P1-13 B6-P-TUE-P1-14 B10-P-TUE-P1-4 D4-0-WED-AM2 | Kimura, Hideo | B1-P-THU-P2-17 D3-P-THU-P2-5 C5-P-THU-P2-1, |
| Kawatsuki, N Kaya, Ali Can Kaya, Sarp Kaya, Seray Kayambaki, Maria | D1-P-TUE-P1-19 B11-O-TUE-PM1 E3-O-TUE-AM2 F1-O-TUE-PM1 C11-O-THU-PM1, C11-O-THU-PM2 | Kharanzhevskiy, Evgeny Kheifets, Olga Khenfer, Khadidja Kheradmand, Nousha Kheramand, N. | C8-P-THU-P2-18, E2-P-TUE-P1-13 B6-P-TUE-P1-14 B10-P-TUE-P1-4 D4-0-WED-AM2 D4-0-WED-AM2 | Kimura, Hideo Kimura, Kazushi | B1-P-THU-P2-17 D3-P-THU-P2-5 C5-P-THU-P2-1, C1-I-P-TUE-P1-3 |
| Kawatsuki, N Kaya, Ali Can Kaya, Sarp Kaya, Seray Kayambaki, Maria | D1-P-TUE-PH1 B11-O-TUE-PM1 E3-O-TUE-AM2 F1-O-TUE-PM1 C11-O-THU-PM1, C11-O-THU-PM2 C11-O-THU-PM2 | Kharanzhevskiy, Evgeny Kheifets, Olga Khenfer, Khadidja Kheradmand, Nousha Kheramand, N. Kherfi , Hamza | C8-P-THU-P2-18, E2-P-TUE-P1-13 B6-P-TUE-P1-14 B10-P-TUE-P1-4 D4-0-WED-AM2 D4-0-WED-AM2 B7-P-THU-P2-4 | Kimura, Hideo Kimura, Kazushi Kimura, Yuta | B1-P-THU-P2-17 D3-P-THU-P2-5 C5-P-THU-P2-1, C1-I-P-TUE-P1-3 E1-I/K-TUE-AM2 |
| Kawatsuki, N Kaya, Ali Can Kaya, Sarp Kaya, Seray Kayambaki, Maria Kayambaki, Maria | D1-P-TUE-P1-19 B11-O-TUE-PM1 E3-O-TUE-AM2 F1-O-TUE-PM1 C11-O-THU-PM1, C11-O-THU-PM2 C11-O-THU-PM2 B6-P-TUE-P1-23 | Kharanzhevskiy, Evgeny Kheifets, Olga Khenfer, Khadidja Kheradmand, Nousha Kheramand, N. | C8-P-THU-P2-18, E2-P-TUE-P1-13 B6-P-TUE-P1-14 B10-P-TUE-P1-4 D4-0-WED-AM2 D4-0-WED-AM2 | Kimura, Hideo Kimura, Kazushi Kimura, Yuta Kinagu, Melih | B1-P-THU-P2-17 D3-P-THU-P2-5 C5-P-THU-P2-1, C1-I-P-TUE-P1-3 E1-I/K-TUE-AM2 C6-P-TUE-P1-9 |

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| Kinloch, Ian | A7-0-WED-PM1 | , | B10-0-M0N-PM2, | Konstantinidis, George | C11-0-THU-PM1, |
| Kinoshita, Hajime | B3-O-TUE-PM1 | Knoedel, Peter | C6-O-TUE-PM1 | Karaballan Eraba | C11-0-THU-PM2 |
| (inzel, Svenja | B3-O-WED-PM2 | Knoop, Daniel | E6-P-THU-P2-5, E6-P-THU-P2-3 | Konstantinos, Fountas | C1-O-MON-AM2 |
| . , | D2-P-TUE-P1-2, | Knorre, Stephan | B11-0-M0N-AM2 | Konstantopoulos, Iason | D4-H-WED-PM2 |
| | A2-P-THU-P2-3, | Knyazeva, Marina | B11-0-WED-PM1 | Kontonika, Marianthi | F1-0-M0N-AM2 |
| ioseoglou, Joseph | D2-O-WED-AM2, D2-P-TUE-P1-13, | , | A1-0-FRI-AM2, | Kontos, Athanassios | E3-0-III-AM2, E3- TUE-P1-11 |
| | D2-P-TUE-P1-21 | Knych, Tadeusz | F5-O-FRI-AM2, C1- II-P-THU-P2-1 | Kontsos, Antonios | B2-O-TUE-PM1 |
| iparissides, Costas | F1-0-M0N-AM2 | Knych, Tadeusz | B11-0-TUE-PM2 | Konyashin, Igor | C5-P-THU-P2-11 |
| irbis, Peter | C8-O-THU-PM2 | Knych, Tadeuusz | B10-0-M0N-AM2 | Koo, Sun Woong | B10-P-TUE-P1-1 |
| rcheisen, Robert | A9-H-FRI-PM1 | Kobayashi, Masakazu | C10-H-THU-PM1 | Kopia, Agnieszka | B3-P-TUE-P1-3, B5-P-TUE-P1-7 |
| irchlechner, Christoph | D4-0-WED-PM1 | Kobler, Aaron | D2-O-MON-PM2 | Kopia, Agnieszka | C1-I-P-TUE-P1-7 |
| iriakidis, G. | C1-II-P-THU-P2-7 | | C8-P-THU-P2-24, | Kopilov, Dmitriy | D8-P-TUE-P1-7 |
| iriakidis, George | C1-O-WED-AM2, C1-II-P-THU-P2-8 | KOCABAŞ, Mustafa | C8-P-THU-P2-25 | Koporulina, Elizaveta | C1-O-FRI-PM1 |
| irievsky, Kiril | E3-0-TUE-PM1 | Koch , Kerstin | F6-H-THU-PM2 | Kopp, Gundolf | B2-0-MON-AM2 |
| ritsis, Themistoklis | B10-0-M0N-PM1 | Koch, Thomas | A3-P-TUE-P1-5, | Köppen, M. | E4-0-WED-PM2 |
| irk, Tanner | D5-O-THU-PM2 | | B10-P-TUE-P1-5 | Kopriva, Radim | E4-P-THU-P2-9 |
| irnbauer, Alexander | C1-O-WED-AM2 | Kochanek, Wolfgang | H2-P-TUE-P1-6 | Kopyto, Marek | B8-O-WED-PM2 |
| irov, Georg | C6-O-MON-PM2 | Kochetov, Roman | A3-0-MON-AM2 | | |
| irsten, Tina | B10-0-M0N-PM2 | Koch-Mueller, Monika | D3-O-WED-PM2, D3-P-THU-P2-11 | Kora, Christos Koralnik, Mateusz Konrad | D10-0-THU-PM2 |
| • | C8-P-THU-P2-6, | Koch-Müller, Monika | C11-P-THU-P2-13 | • | B5-P-TUE-P1-5 B5-P-TUE-P1-6 |
| irtay, Sebahattin | C8-P-THU-P2-7 | Kocjan, Andraz | F4-0-M0N-PM1 | Koralnik, Mateusz Konrad | B2-P-TUE-P1-6 |
| iryukhantsev-korneev, Philipp | C1-O-TUE-PM1, C1- | Koclęga, Damian | C1-I-P-TUE-P1-6 | Koralnik, Milena | |
| , , , | II-P-THU-P2-10 | Kodanek, Torben | A5-0-TUE-PM1 | Korchuganova, Olesya | E4-O-WED-AM2, E4-O-WED-AM2 |
| iseeva, Elena | B3-O-TUE-AM2 | Koegl, Markus | C6-O-TUE-AM2 | Kordalivand, Neda | F1-I/K-MON-AM2 |
| isielewska, Aneta | C1-O-TUE-PM2, C1- II-P-THU-P2-17 | Koelmans, Wabe | C11-O-THU-PM2 | Kordas , G. | A5-H-MON-PM1 |
| .t. I A I. | C1-O-THU-PM1, | Koesters, Robert | E6-P-THU-P2-2 | Kordas, George | F2-P-THU-P2-4 |
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| tamura, Shin-ya | H2-O-MON-PM2 | Koga, Tadanori | C10-H-THU-PM1 | | B11-0-TUE-PM1 |
| itamura, Shin-ya | H2-O-MON-PM2 | Kogtenkova, Olga | | Kormout, Karoline | B4-0-FRI-PM1, |
| itsou, Ioanna | A7-II-P-THU-P2-10 | Köhler, Jürgen | A8-0-MON-AM2 | | B4-0-FRI-PM1 |
| iyan, Roman | C4-O-WED-PM1 | Kohlstedt, Hermann | D1-O-TUE-PM1 | Kornecki, Michael | H1-O-TUE-PM1 |
| jeldstad, Torunn | A7-0-THU-PM1 | Koike, Junichi | B2-O-THU-AM2, B2-O-THU-AM2 | Körner, Markus | C6-0-TUE-PM1 |
| lande, Tobias | A9-H-FRI-PM1 | Kojic, Sanja | C11-P-THU-P2-14 | Körner, Markus | C6-O-MON-AM2 |
| larbring, Johan | D10-H-FRI-PM1 | Kókai, Eszter | A3-P-TUE-P1-21 | Korneva, Anna | C10-H-THU-PM1 |
| laushofer, Klaus | F6-0-THU-PM2 | Kokavesis, Markos | C11-O-FRI-AM2 | Korobova, Natalia | B5-P-TUE-P1-3, A3-P-TUE-P1-3, |
| leber, Christoph | B10-0-WED-PM2 | Kolahi, A. | B1-0-WED-PM1 | Noi obova, Natatia | A3-P-TUE-P1-12 |
| leebe, Hans-Joachim | B5-0-TUE-AM2 | | B3-O-WED-AM2, | Korsmik, Rudolf | C2-0-TUE-AM2, |
| leemann, Andreas | B10-0-M0N-AM2 | Kolb, Markus | D4-P-TUE-P2-3 | | B3-0-WED-AM2 |
| leemann, Susanne | B10-0-M0N-AM2 | Kolenatý, David | C1-O-WED-AM2 | Korzhavyi, P. A. | D8-O-WED-PM2 |
| leftakis, Spyros | B10-0-TUE-PM1 | Kolesnikova, Anna | D4-H-TUE-PM2 | Korzhavyi, Pavel | D9-O-TUE-AM2, D8-O-THU-PM2 |
| Isla Massac | C4-O-WED-AM2, | Kolettis, Theofillos | F1-0-M0N-AM2 | Korzhavyi, Pavel A. | D8-0-WED-AM2 |
| lein, Marcus | B11-0-M0N-PM1 | Koliogiorgos, Athanasios | E3-P-TUE-P1-2 | Korznikova, Galia | A1-0-FRI-AM2 |
| leinbichler, Andreas | D4-O-TUE-AM2 | Koller, Christian | C1-H-MON-PM2 | | E3-P-TUE-P1-16 |
| lemm, V. | C10-H-THU-AM2 | Koller, Christian-Martin | C1-O-WED-AM2 | Korzun, Barys | |
| liauga, Andrea | B4-H-THU-PM2 | Kollmannsberger, Philip | F6-O-THU-PM2 | Kos, Simon | C1-O-TUE-PM2 |
| limenkov, M. | D8-O-THU-PM2 | Kolosov, Vladimir | D2-P-TUE-P1-24, | Kosinova, Anna | C5-P-THU-P2-10 |
| limenkov, Michael | E4-0-THU-AM2, B4-0-FRI-AM2, | Kolovou, Androniki | D2-0-THU-PM1 F2-0-WED-AM2 | Kossman, Stephania | D4-O-TUE-PM1, D4-P-TUE-P2-4 |
| | E4-0-WED-AM2 | | C1-H-MON-AM2, | Kostagiannakopoulou, Christina | B6-O-TUE-PM2, A1-O-FRI-PM1 |
| limova, Margarita | C10-H-WED-PM2 | Kolozsvári, Szilard | C1-O-WED-AM2 | Kostantinovic, Zorica | A8-O-MON-AM2 |
| imova-korsmik, Olga | B3-O-WED-AM2 | | C5-O-THU-PM2, | Köster, Alain | B2-O-MON-PM1 |
| imova-Korsmik, Olga | C2-O-TUE-AM2 | Koltsov, Alexey | C5-P-THU-P2-4, C5-O-THU-PM2 | Köster, Alain | B6-P-TUE-P1-21 |
| ocke, Fritz | C9-O-THU-AM2, C9-P-THU-P2-7 | Kombogiannis, Spyridon | C9-P-THU-P2-8 | Kostevsek, Nina | A2-O-WED-PM1 |
| ocker, Helmut | C1-O-FRI-AM2 | Komisarchik, Gennady | E3-O-TUE-PM1 | Kostić, Miloš | B6-P-TUE-P1-26 |
| pewer, Jutta | B10-0-WED-PM1 | Komninou, Filomila | C11-O-THU-PM1 | Kostka, Aleksander | B3-0-M0N-AM2 |
| öppel, Andreas | C1-I/K-WED-PM1 | | D2-O-WED-PM1, | | C11-O-THU-PM1 |
| ünsner, Thomas | B11-I/K-WED-AM2 | Komninou, Philomela | D2-O-WED-AM2, D2-P-TUE-P1-13, | Kostopoulos, Athanasios | C1-II-P-THU-P2 |
| usek, Zbigniew | D2-P-TUE-P1-3 | Nominiou, i illumeta | D2-P-10E-P1-13, D2-O-WED-PM2, | Vostonoulos V:: | C11-O-THU-PM2 |
| yuev, Andrey | D4-P-TUE-P2-11 | | D2-P-TUE-P1-20 | Kostopoulos, Vassilios | E2-0-TUE-PM2 |
| ment, Stepan | E1-0-TUE-PM2 | Konakov, Vladimir | B5-O-MON-PM2, | Kostopoulos, Vassilis | B6-O-TUE-PM2, B6-O-TUE-PM1, |
| nent, Stepan napp, Cameron | D6-O-FRI-AM2 | | B5-P-TUE-P1-22 | | A1-0-FRI-PM1 |
| napp, cameron nappmann, Stephan | C6-H-MON-PM1 | Kondo, M | D1-P-TUE-P1-19 | Kostopoulou, Athanassia | A5-P-TUE-P1-15 |
| | | Konofaos, Nikos | C11-P-THU-P2-5 | Kostov, Krassimir | F6-0-FRI-PM1 |
| naus, Simone | A3-P-TUE-P1-5 F1-P-TUF-P1-2. | Konopatsky, Anton | C10-H-THU-AM2 | Kostryzhev, Andrii | B1-I/K-TUE-AM2 |
| | | | | | |

Konstandopoulos, Athanasios G.

Konstantatos, Gerasimos

Konstantinidis, Avraam

Kot, Marcin

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E1-0-M0N-AM2

E2-0-TUE-PM1

Knauth, Philippe

Knauth, Philippe

KNAUTH, Philippe

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| EUROMAT 2017 Kotoulas, Anastasios | A5-P-TUE-P1-4 | | H1-H-MON-PM1, | Kuhn, Bernd | B11-0-TUE-PM2 |
|--|--|---|--|---|--|
| Kotrlova, Michaela | C1-I-P-TUE-P1-12 | Kramer, Matthew | H1-H-TUE-AM2, | Kuibeda, Rostislav | E4-0-WED-AM2 |
| Kotrotsos, Athanasios | B6-O-TUE-PM1 | Kramer, Matthew | D1-O-THU-PM2 H1-H-MON-PM1 | Kukava, Tengiz | B3-P-TUE-P1-11 |
| Kotsanis, Tilemachos | C9-I/K-THU-Ⅲ2, | Krämer, Matthew Krämer, Tim | B1-0-FRI-PM1 | Kukli, Kaupo | C11-P-THU-P2-6, |
| · | C9-H-THU-AM2 | Kranzmann, Axel | C1-I-P-TUE-P1-6 | | C11-P-THU-P2-7 |
| Kotsina, Zoi | E4-O-WED-AM2 | Krasnowski, Marek | C3-P-THU-P2-3 | Kula, Zofia | F1-P-TUE-P1-2 |
| Kou, Hongchao | B2-O-THU-PM1, B3-O-TUE-PM1 | Krassa, Kalliopi | A3-P-TUE-P1-11 | Kulagin, Roman | C10-O-WED-AM2 |
| Koudoumas, Emmanouel | C1-II-P-THU-P2-18 | Kraus, Tobias | B1-0-TUE-PM2 | KULAGIN, Roman | C10-0-WED-AM2 |
| Koukoula, Triantafillia | C11-O-THU-PM1 | Kravtsova, Valentina | A3-P-TUE-P1-3 | Kulakova, Lina | D10-O-THU-PM1 C1-I-P-TUE-P1-10, |
| | A7-II-P-THU-P2-13, | Krawczyk, Marta | C4-P-THU-P2-2 | Kulasa, Joanna | C1-I-P-TUE-P1-11 |
| Koumoulos, Elias | F3-P-THU-P2-6, D4-P-TUE-P2-2 | Krawczyk, Marta | C4-P-THU-P2-7 | Kulevoy, Timur | E4-0-WED-AM2 |
| Karanarita dan Datasa | D10-0-THU-PM1, | Krawczynska, Agnieszka | B4-0-THU-AM2 | Kulik, Tadeusz | C3-P-THU-P2-3, |
| Koumoutsakos, Petros | D10-H-THU-PM1 | Krcma, Frantisek | A5-P-TUE-P1-6, | | B3-0-THU-AM2 D5-0-THU-PM1 |
| Kouravelou, Katerina | E2-O-TUE-PM2, A1-O-FRI-PM1 | | C1-II-P-THU-P2-6 | Kulitcki, Vladislav Kumaqai, Tomohisa | D10-0-WED-PM1 |
| Kourkoulis , Stavros | B10-0-TUE-PM1 | Kreikemeier, Janko | E6-O-THU-PM2 D2-O-WED-PM1, | Kumar Vajpai, Sanjay | B11-P-TUE-P1 |
| Kourkoulis , Stavros | B10-0-TUE-PM2 | Kret, Slawomir | D2-O-WED-PM1 | Kumar, Ankit | B1-0-WED-PM2 |
| Kourkoulis, Stavros | B10-0-WED-AM2 | Kret, Sławomir | D2-O-WED-PM1, | Kumar, Arun | D5-H-FRI-AM2 |
| Kourouklis, G. A. | D3-P-THU-P2-10 | | D2-P-TUE-P1-9 | Kumar, Dharmesh | C1-0-FRI-PM1 |
| Kourouklis, G.A. | D3-P-THU-P2-3 | KRIAA, Hana | D4-0-M0N-PM2 B8-0-WED-PM1 | Kumar, Manvendra | B11-0-M0N-PM2 |
| Kourouklis, Gerasimos | D3-P-THU-P2-5 | Kriege, Fabian | C10-H-THU-AM2 | Kumar, R. | E3-H-WED-PM1 |
| Kourouklis, Gerasimos A. | D3-P-THU-P2-2 | Kriegel, M.J. Kriegel, Mario | C10-H-THU-AM2 | Kumar, Ravi | E6-0-FRI-PM1 |
| Kouroupis, Dimitrios | F1-0-M0N-AM2 | Kriegel, Mario J. | B11-0-MON-PM2 | Kumar, Richi | D1-O-TUE-PM2, |
| Kourtidou, Dimitra | C1-I-P-TUE-P1-20 | Kriegel, Ralf | A9-H-FRI-PM1 | | B2-O-WED-PM2 |
| Koutná, Nikola | D8-O-THU-PM1, | Krieger, Waldemar | B10-0-WED-PM1 | Kumar, Susmit | A2-0-THU-PM1 |
| Koutsourelakis, Phaedon-Stelios | C1-H-MON-PM2 D10-H-WED-AM2 | Kripak, Viktor | D5-O-THU-PM2 | Kumar, Tej | C4-0-THU-PM2 |
| Kouvatsos, Dimitrios | C11-P-THU-P2-11 | Kriskova, Lubica | H2-O-MON-PM1 | Kumberg, J. | C11-O-FRI-PM1 B4-O-THU-PM1, |
| Kouznetsova, Varvara | D4-0-WED-PM1 | Krizan, Daniel | B1-0-TUE-AM2 | Kümmel, Frank | B4-P-THU-P2-6 |
| Kováčik, Jaroslav | C1-I-P-TUE-P1-11 | Krizik, Peter | B11-O-WED-AM2 | Kunc, Vlastimil | H1-H-TUE-AM2 |
| Koval, Natalia | D8-P-TUE-P1-1 | Kröger, Erik | D1-O-TUE-PM1 | Kuncser, Victor | A2-H-THU-AM2 |
| Kovalcikova, Alexandra | B5-P-TUE-P1-19 | Krol, Denise M. | C2-P-TUE-P1-11 | Kundanati, Lakshminath | F6-0-THU-PM1 |
| Kovalenko, Maksym V. | D1-O-TUE-AM2 | Kroll, Lothar | E6-P-THU-P2-3 | Kundin, Julia | D5-H-FRI-AM2, B6-O-WED-AM2 |
| Kovalev, Igor | D2-P-TUE-P1-7 | Kronast, Florian | D1-O-THU-PM2 | Kundu, Manab | E2-0-MON-PM2 |
| Kovalskii, Andrey | A7-O-WED-PM2 | Kronsteiner, Johannes | D5-O-THU-PM2 | Kunhi Mohamed, Aslam | D10-II-P-THU-P2-4 |
| Kowalczyk, Piotr | D10-I-P-TUE-P1-6 | Krontiras, Christofors | A3-P-TUE-P1-8, A3-P-TUE-P1-18 | Kuntz, Joshua | H1-H-TUE-AM2 |
| W | B1-I/K-FRI-PM1, | Krsjak, Vladimir | D9-0-TUE-PM1 | | B1-O-WED-PM1, |
| Koyama, Motomichi | B1-P-THU-P2-12, B1-P-THU-P2-13 | Kruglova, Anastasia | D2-O-TUE-AM2 | Kuntz, Matthias | B1-P-THU-P2-5, |
| Kozak, Karolina | C9-P-THU-P2-3 | Kruk, Robert | D2-O-MON-PM1 | Kunz, Martin | B11-0-M0N-AM2 E1-0-TUE-AM2 |
| Kozák, Tomáš | C1-O-WED-AM2 | Krumeich, Frank | D1-0-TUE-AM2 | | E6-0-THU-AM2, |
| Kozakos, Stavros | E3-P-TUE-P1-19 | Krupp, Ulrich | B3-O-WED-PM1, | Kunze, Arne | E6-0-THU-AM2 |
| Kozera, Paulina | H3-P-TUE-P1-2 | | B11-O-MON-AM2 | Kunze, Tim | C2-O-MON-PM2 |
| Kozera, Rafal | C1-O-THU-AM2, | Krupp, Ulrich | B6-P-TUE-P1-9 | Kupczyk, Aleksandra | C1-I-P-TUE-P1-5 |
| | H3-P-TUE-P1-2 B6-P-TUE-P1-29 | Kruse, Jann | C11-O-THU-PM1 | Küppers, Hanno | D1-O-TUE-AM2 |
| Kozera, Rafał Kozera, Rafał | H3-P-TUE-P1-3 | Krymskiy, Stanislav | B2-P-TUE-P1-15 | Kuptsov, Konstantin | A8-O-TUE-AM2 |
| Nozera, Narat | D8-O-THU-AM2, | Krystian, Maciej | C10-O-THU-PM2 C8-P-THU-P2-8 | Kuramoto, Shigeru | B2-P-TUE-P1-5 |
| | D5-O-THU-PM2, | Krzak, Izabela | C1-O-TUE-AM2, | KURAMOTO, Shigeru | B2-P-TUE-P1-6, B2-P-TUE-P1-7 |
| Kozeschnik, Ernst | D10-O-FRI-AM2, C10-O-THU-PM1, | Ksiazek, Marzanna | C8-P-THU-P2-8 | Kuranaya Olga | B5-O-MON-PM2, |
| | D5-O-FRI-AM2, | Ksibi, Mohamed | E3-0-TUE-AM2 | Kurapova, Olga | B5-P-TUE-P1-22 |
| | D2-O-MON-PM1 | Ku, Nicholas | H1-O-TUE-PM1 | Kurek, Pavol | B6-P-TUE-P1-25 |
| Kozeschnik, Ernst | C7-O-TUE-PM2, B11-O-MON-PM1 | Kuang, Wangwang | B1-0-FRI-AM2 | Kuriplach, Jan | D9-0-TUE-PM1 |
| Koziej, Dorota | D1-P-TUE-P1-13 | Kübel, Christian | D2-O-MON-PM2, D4-O-MON-PM1 | Kürnsteiner, Philipp | C4-O-FRI-AM2, C4- P-THU-P2-13 |
| | | Walter of Charles | D4-H-TUE-PM1 | Kurochka, Kirill | B6-P-TUE-P1-14 |
| Kozlík, Jiří | C3-P-THU-P2-11 | | | | |
| Kozlík, Jiří Kozlov, Andrey | C3-P-THU-P2-11 D2-0-WED-PM2 | Kucharski, Stanisław Kuchenhecker Petra | | Kurowska, Bogusawa | D2-P-TUE-P1-9 |
| | | киспагsкі, Stanistaw Kuchenbecker, Petra | C9-0-THU-PM2 E1-0-MON-PM2, | Kurowska, Bogusawa Kurowska, Bogusława | D2-P-TUE-P1-9 D2-O-WED-PM1 |
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| Kozlov, Andrey Kozodaev, Mihail | D2-O-WED-PM2 E4-O-WED-AM2 | Kuchenbecker, Petra | C9-O-THU-PM2 E1-O-MON-PM2, E1-H-MON-PM2, E1-P-TUE-P1-1, | Kurowska, Bogusława | D2-O-WED-PM1 |
| Kozlov, Andrey Kozodaev, Mihail Kozuka, Masaya Krabac, Lubomir | D2-O-WED-PM2 E4-O-WED-AM2 B2-O-MON-PM1 B10-O-TUE-PM2 A5-H-WED-PM1, | Kuchenbecker, Petra | C9-O-THU-PM2 E1-O-MON-PM2, E1-H-MON-PM2, | Kurowska, Bogusława Kurselis, Kestutis | D2-O-WED-PM1 C4-O-WED-PM1 |
| Kozlov, Andrey Kozodaev, Mihail Kozuka, Masaya | D2-O-WED-PM2 E4-O-WED-AM2 B2-O-MON-PM1 B10-O-TUE-PM2 | Kuchenbecker, Petra Kuchta, Bogdan | C9-O-THU-PM2 E1-O-MON-PM2, E1-H-MON-PM2, E1-P-TUE-P1-1, E1-I/K-MON-PM2 | Kurowska, Bogusława Kurselis, Kestutis Kurtuldu, Güven | D2-O-WED-PM1 C4-O-WED-PM1 B9-O-THU-AM2 |
| Kozlov, Andrey Kozodaev, Mihail Kozuka, Masaya Krabac, Lubomir | D2-O-WED-PM2 E4-O-WED-AM2 B2-O-MON-PM1 B10-O-TUE-PM2 A5-H-WED-PM1, A5-O-TUE-PM2, D2- | Kuchenbecker, Petra Kuchta, Bogdan Kucukelyas, Burak | C9-O-THU-PM2 E1-O-MON-PM2, E1-H-MON-PM2, E1-P-TUE-P1-1, E1-I/K-MON-PM2 B8-P-THU-P2-10 | Kurowska, Bogusława Kurselis, Kestutis Kurtuldu, Güven Kurtyka, Pawel | D2-O-WED-PM1 C4-O-WED-PM1 B9-O-THU-AM2 C10-O-THU-PM2 |
| Kozlov, Andrey Kozodaev, Mihail Kozuka, Masaya Krabac, Lubomir Krahne, Roman Krajcarz, Florent | D2-O-WED-PM2 E4-O-WED-AM2 B2-O-MON-PM1 B10-O-TUE-PM2 A5-H-WED-PM1, A5-O-TUE-PM2, D2- H-WED-PM1 B1-P-THU-P2-10 D10-I-P-TUE-P1-9, | Kuchenbecker, Petra Kuchta, Bogdan Kucukelyas, Burak Kücükelyas, Burak | C9-O-THU-PM2 E1-O-MON-PM2, E1-H-MON-PM2, E1-P-TUE-P1-1, E1-I/K-MON-PM2 B8-P-THU-P2-10 D5-O-FRI-PM1 | Kurowska, Bogusława Kurselis, Kestutis Kurtuldu, Güven Kurtyka, Pawel KURUMADA, Akira | D2-O-WED-PM1 C4-O-WED-PM1 B9-O-THU-AM2 C10-O-THU-PM2 B2-P-TUE-P1-7 B1-O-THU-AM2 D8-O-FRI-AM2 |
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| Neirinck, Bram | A6-0-FRI-PM1 | Nikolov, Anastas | C2-P-TUE-P1-5 | Nunes, Eduardo Henrique Martins | A9-P-THU-P2-3 |
| Neisius, Thomas | E1-P-TUE-P1-1, | Nikolova, Maria | C1-I-P-TUE-P1-17 | Nunes, Suzana | E1-0-TUE-PM1 |
| | D2-O-TUE-AM2 | Nilsson, Johan | D10-H-FRI-PM1 | Nutter, John | B1-O-TUE-PM2 |
| Nelson, Anders | C1-O-THU-AM2 | Nilsson, Karl-fredrik | D9-I/K-TUE-PM1 | Nyberg, Eric | B2-O-THU-PM2, |
| Nelson, Bradley | F2-P-THU-P2-9 | Nilsson, Karl-Fredrik | D9-O-MON-AM2 | | B2-P-TUE-P1-11 |
| Nelson, Maria | F1-0-M0N-PM2 | Nilsson, Karl-Fredrik | D9-P-TUE-P1-19 | Nyborg , Lars | C4-O-FRI-PM1 |
| Neophytides, Stylianos | E1-0-TUE-PM2 | Nimer, Salahudin | B11-O-THU-AM2, D4-O-MON-PM2 | | C4-O-FRI-PM1, C3-H-THU-PM2, |
| Neophytou, Neophytos | E3-H-WED-AM2 | Ning, Xiao-Shan | B5-O-MON-PM1 | Nyborg, Lars | C4-P-THU-P2-10, |
| Nerantzaki, Maria | A3-P-TUE-P1-4 | Ninkovic, Dragan | D8-P-TUE-P1-10 | | C4-O-WED-AM2, C4-O-THU-AM2 |
| Neri, Stefano | B1-0-THU-PM1 | Nishioka, E | D1-P-TUE-P1-19 | Nyborg, M. | E3-H-WED-PM1 |
| Neri, Wilfrid | A1-O-FRI-PM1, A1-O-FRI-PM1 | Nissari, Ali | B2-0-THU-PM2 | Nyhus, Bård | D4-O-WED-AM2 |
| Nesterovic, Andrea | C11-P-THU-P2-14 | · | A5-O-TUE-PM1 | | |
| Tresterovie, Andrea | C4-P-THU-P2-8, | Nistor, Leona Cristina | | Nykypanchuk, Dmytro | D1-O-TUE-PM1 |
| Neto, Rui | C4-P-THU-P2-9, | Nistor, Vasile Sergiu | A5-O-TUE-PM1 | | DO D THE D1 00 |
| | C4-O-WED-PM1 | Nitta, Kiyofumu | E1-I/K-TUE-AM2 | Ø, Prytz | D2-P-TUE-P1-29 |
| Neuefeind, Jörg C. | D3-O-WED-PM1 | Njuguna, James | E6-O-FRI-AM2 | Oberwinkler, Bernd | B3-P-TUE-P1-4 |
| Neugebauer, Joerg | D8-I/K-FRI-AM2 | Nlebedim, I | H1-H-TUE-AM2 | Obradovic, Nina | B11-P-TUE-P1-14 |
| | D8-O-THU-PM2, | Nlebedim, Ikenna | H1-H-MON-PM1, H2-O-TUE-AM2 | O'Brien, Nathan | A1-O-THU-PM2 |
| Neugebauer, Jörg | B1-O-FRI-AM2, D8-O-THU-AM2, | Nlebedim, Ikenna C. | H1-H-TUE-AM2 | O'Connor, Brian | D1-O-TUE-AM2 |
| | D5-O-FRI-PM1, | Nocivin, Anna | F4-P-TUE-P1-1 | Oda, T. | E4-P-THU-P2-1 |
| | D5-O-THU-PM1 | Noel, Cedric | B10-0-WED-AM2 | Odnobokova, Marina | C10-P-THU-P2-4 |
| Neuking, Klaus | D10-O-THU-PM2, D5-O-THU-PM1 | Noël, Cédric | C1-O-FRI-AM2 | Odor, Eva | B8-P-THU-P2-11 |
| | B3-0-WED-AM2, | | F1-0-MON-PM2 | Odriozola, Ibon | B6-P-TUE-P1-19 |
| Neumeier, Steffen | D4-P-TUE-P2-3 | Noel, Daniele | C6-P-TUE-P1-13 | Odutola, Tamara Nastasia Titilola Ais | A2-P-THU-P2-6 |
| Neumeister, Markus | E6-0-THU-PM2 | Noga, Piotr | | Odysseos, Marios | E1-0-M0N-PM1 |
| Newton, Mark A. | D1-P-TUE-P1-23 | Nogales, Aurora | A7-H-TUE-PM2 | | B10-0-WED-AM2, |
| Ng , Serina | A7-I-P-TUE-P1-23 | NOGNING KAMTA, Philemon | B11-P-TUE-P1-18 | Oechsner, Matthias | B10-O-WED-PM1, B10-O-TUE-PM1 |
| Ngai, Sieglind | B3-P-TUE-P1-8, | Noguchi, Hiroshi | B1-I/K-FRI-PM1 | Oehring, Michael | D1-0-THU-PM1 |
| nyai, Siegunu | B10-O-TUE-PM2 | Nogués, Carme | F4-0-M0N-PM2 | Oertel, Carl-Georg | B4-H-FRI-AM2 |
| Ngai, Tungwai | B10-O-TUE-PM2 | Noh, Hee-Jun | A7-I-P-TUE-P1-18 | Offeh Gyimah, Kwabena | A7-I-P-TUE-P1-15 |
| Ngan-Tillard, Dominique | D1-O-TUE-PM2 | Noh, Sanghoon | C4-O-THU-PM2 | Offerman, Erik | B1-0-FRI-PM1 |
| Nguyen, Ngan.T.K. | A5-0-MON-AM2 | Noh, Sang-hoon | B1-P-THU-P2-17 | | |
| Nguyen-Manh, D. | D8-O-THU-PM2 | Nohava, Jirí | D4-O-TUE-PM1 | Ogawa, Syusui | C1-O-TUE-PM2 B2-O-THU-AM2, |
| | D8-O-FRI-AM2, | Nokhrin Alakaay | B5-O-TUE-AM2, B5-P-TUE-P1-20, | Ogawa, Yukiko | B2-0-THU-AM2, |
| Nguyen-Manh, Duc | B8-O-WED-PM2, D8-O-WED-AM2, | Nokhrin, Aleksey | B6-P-TUE-P1-30 | Oger, Geoffrey | A6-II-P-THU-P2-1 |
| rigayen Piann, Dae | B8-P-THU-P2-9, | Nolan, Michael | C1-O-MON-PM2 | Oh, Hyun Seok | B8-O-THU-PM1 |
| | B7-P-THU-P2-12 | Nolens, Grégory | A6-II-P-THU-P2-1 | Oh, Jinkeun | B1-0-THU-AM2 |
| Niarchos, Dimitrios | D2-O-WED-PM2 | Nominé, Alexandre | C1-O-FRI-AM2 | Oh, Sangtaek | C9-O-THU-PM2 |
| Nicholls, John | C1-II-P-THU-P2-11 | Nonaka, Kenji | D1-O-THU-PM1 | Oh, Seh-Joong | C1-O-FRI-AM2 |
| Nicholson, Kyle | B2-P-TUE-P1-4, | | D1-P-TUE-P1-5, | Oh, Woojin | B6-P-TUE-P1-32 |
| . , | E1-0-TUE-PM2 | Nonni, Sara | D1-P-TUE-P1-7 | Ohashi, Naoki | A5-0-MON-AM2 |
| Nicol, Elizabeth | D3-I/K-WED-AM2 | Noor, Nazia | A9-O-FRI-AM2 | | |
| Nicolaou, Christiana | E3-O-WED-AM2, E3-P-TUE-P1-3, | Norby, Truls | E3-O-TUE-AM2, | Ohmura, Takahito | B2-P-TUE-P1-5 |
| | | Norby, Irus | E3-P-TUE-P1-7 | OHMURA, Takahito | B2-P-TUE-P1-6 |
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| Nicolics, Johann | E3-P-TUE-P1-4 C9-O-THU-PM1 | Nordlund, K. | E4-P-THU-P2-8 | Ohnuma, Toshiharu | D10-0-WED-PM1 |
| · | | Nordlund, K. Nordlund, Kai | E4-0-TUE-PM2, | Ohnuma, Toshiharu Ohodnicki, Paul | E3-0-M0N-PM2, |
| Nicolics, Johann | C9-O-THU-PM1 | | E4-O-TUE-PM2, D9-O-WED-PM1 | Ohodnicki, Paul | E3-0-MON-PM2, H1-0-MON-PM1 |
| Nicolics, Johann Nicolini, Valentina Nicotera, Isabela | C9-O-THU-PM1 D1-O-TUE-PM1 | | E4-0-TUE-PM2, | Ohodnicki, Paul Ohta, Noboru | E3-0-MON-PM2, H1-0-MON-PM1 D1-0-TUE-PM2 |
| Nicolics, Johann Nicolini, Valentina | C9-O-THU-PM1 D1-O-TUE-PM1 E2-P-TUE-P1-8 | Nordlund, Kai | E4-0-TUE-PM2, D9-0-WED-PM1 A6-0-FRI-AM2, | Ohodnicki, Paul Ohta, Noboru Ohtani, Hiroshi | E3-0-M0N-PM2, H1-0-M0N-PM1 D1-0-TUE-PM2 H1-H-TUE-PM2 |
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| Nicolics, Johann Nicolini, Valentina Nicotera, Isabela Nicotera, Isabella Nie, J.F. | C9-O-THU-PM1 D1-O-TUE-PM1 E2-P-TUE-P1-8 E2-P-TUE-P1-1, E2-P-TUE-P1-20 B2-O-MON-PM1 | Nordlund, Kai | E4-0-TUE-PM2, D9-0-WED-PM1 A6-0-FRI-AM2, B5-0-MON-AM2 A6-0-FRI-PM1 C11-0-FRI-AM2, C11-P-THU-P2-6, C11-P-THU-P2-7, | Ohodnicki, Paul Ohta, Noboru Ohtani, Hiroshi Øien-Ødegaard, Sigurd Oikonomou, Christos Ojea-Jiménez, Isaac | E3-0-MON-PM2, H1-0-MON-PM1 D1-0-TUE-PM2 H1-H-TUE-PM2 B7-0-FRI-AM2 C4-0-THU-AM2 A5-0-MON-PM1 |
| Nicolics, Johann Nicolini, Valentina Nicotera, Isabela Nicotera, Isabella Nie, J.F. Nie, Jian-Feng | C9-0-THU-PM1 D1-0-TUE-PM1 E2-P-TUE-P1-8 E2-P-TUE-P1-1, E2-P-TUE-P1-20 B2-0-MON-PM1 B2-0-THU-AM2 | Nordlund, Kai Norman, Andrew Norman, Andy Normand, Pascal | E4-0-TUE-PM2, D9-0-WED-PM1 A6-0-FRI-AM2, B5-0-MON-AM2 A6-0-FRI-PM1 C11-0-FRI-AM2, C11-P-THU-P2-6, C11-P-THU-P2-7, C11-0-THU-PM2 | Ohodnicki, Paul Ohta, Noboru Ohtani, Hiroshi Øien-Ødegaard, Sigurd Oikonomou, Christos Ojea-Jiménez, Isaac Ojeda López, Reyna | E3-0-MON-PM2, H1-0-MON-PM1 D1-0-TUE-PM2 H1-H-TUE-PM2 B7-0-FRI-AM2 C4-0-THU-AM2 A5-0-MON-PM1 A1-0-FRI-PM1 |
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| Policicchio, Alfonso | A1-P-THU-P2-11 | | A7-I-P-TUE-P1-14, | Pugno, Nicola | F6-O-THU-PM1, |
| Polizos, Georgios | A7-0-WED-AM2 | Prados, Alicia | A7-0-THU-AM2 | _ | F6-O-FRI-AM2 |
| Polt, Gerald | B11-0-TUE-PM1 | Prados-Rosales, Rafael | F3-O-WED-PM2 | Pujol, Toni | E3-0-MON-PM1 |
| Polyakov, Mikhail | D2-O-THU-AM2 | Prahl, U. | B1-O-TUE-PM2, D5-O-THU-PM2 | Pukenas, Aurimas | B8-P-THU-P2-11 |
| Polyakova, Kristina | B11-0-THU-AM2 | | B1-I/K-THU-PM2 | | B4-0-THU-AM2, C10-0-WED-PM2, |
| Polyakova, Veronika | B4-0-THU-AM2 | Prahl, Ulrich | D5-0-THU-PM2 | Purcek, Gencaga | C6-O-MON-AM2, |
| Polychroniadis, Efstathios | E3-P-TUE-P1-13 | Prajapat, C.L. | D1-P-TUE-P1-16 | | C10-P-THU-P2-3, C10-P-THU-P2-6 |
| Polychronopoulou, Danai | D10-H-WED-PM2 | Pranovi, Pietro | C1-O-FRI-AM2 | Pürçek, Gençağa | B11-0-TUE-PM2 |
| Polydoropoulou, Panagiota | B6-0-TUE-PM1 | Praprotnik, Matej | D10-H-THU-PM1 | Purton, John | D9-P-TUE-P1-16 |
| Pomar, Alberto | A8-O-MON-AM2 C9-O-THU-PM2, | Prasad, Rajesh | B2-O-TUE-PM1 | | D8-O-THU-PM1, |
| Pommer, Christian | C9-P-THU-P2-10 | Prassides, K. | D3-P-THU-P2-3 | Puschnig, Peter | B3-O-MON-PM2 |
| Ponard, Anne | D4-P-TUE-P2-8 | Prato, Mirko | A5-O-MON-AM2 | Pusztai, Tamás | B2-O-TUE-PM2 |
| Ponce de León, Carlos | E2-P-TUE-P1-19 | Preciado, Mónica | B2-O-TUE-PM1 | Put, Brecht | E2-O-TUE-PM1, E2-O-TUE-PM1 |
| Ponge, Dirk | B1-I/K-FRI-PM1 | Preisler, Dalibor | B2-P-TUE-P1-9 | Putignano, Carmine | C2-H-TUE-AM2 |
| Ponge, Dirk | B1-0-TUE-PM2 | Prellier, Wilfrid | D2-O-TUE-AM2 | Putilova, Evgeniia | B1-P-THU-P2-16 |
| Ponomareva, Alexsandra | F2-O-WED-PM1 | | D2-O-MON-PM1, | Puydebois, Simon | B10-0-TUE-PM2 |
| Pons, Michel | C1-O-MON-PM2 | Preuss, Michael | E4-O-WED-PM2, E4-P-THU-P2-11, | Puype, Athina | D9-0-MON-PM1 |
| Ponthiaux, Pierre | B10-0-WED-AM2 | | E4-0-WED-AM2 | | D1-0-THU-PM1, |
| Pontikes, Yiannis | H2-O-MON-PM1, | Preziosi, Daniele | A8-O-MON-PM1 | Pyczak, Florian | B2-O-TUE-AM2 |
| · | H2-O-MON-AM2 | Priarone, Paolo C. | C9-I/K-FRI-AM2 | Pykal, Martin | A1-0-FRI-PM1 |
| Pontinkes, Yiannis | H2-O-MON-PM1 | Pribat, Clément | C11-O-THU-PM1 | Q | |
| Pontremoli, Carlotta | F2-P-THU-P2-3, F2-P-THU-P2-5 | Priemel, Tobias | F6-O-THU-PM2 | Qi, Chengzhi | D4-P-TUE-P2-6 |
| Pontremoli, Carlotta | F2-O-WED-AM2 | Prieto, Carlos | A1-P-THU-P2-5, A7-I-P-TUE-P1-7, | Qiang, Fengming | B3-O-TUE-PM1 |
| Popadic, Aleksandar | D10-H-THU-PM1 | Frieto, Cartos | A7-II-P-THU-P2-9 | QIAO, J.C. | B9-H-THU-PM1 |
| Popescu, Ana Maria Julieta | H2-P-TUE-P1-5 | Prieto, Carlos | A1-H-FRI-PM1 | Qiao, Jichao | B9-P-THU-P2-5, |
| Popescu, Cristian Aurelian | B8-0-THU-PM2 | Priezzheva, Anastasia | D4-H-TUE-PM2, D2-O-WED-PM2 | Qimin, Wang | B9-0-THU-PM1 C1-0-MON-AM2 |
| Popescu, Gabriela | B8-O-THU-PM2, B8-P-THU-P2-4, | Prigipaki, Ariadne | F6-O-FRI-PM1 | Qin, Bingsheng | E2-0-MON-AM2, |
| ropescu, oabileta | B8-P-THU-P2-5 | Prikhodko, Kirill | D2-O-WED-PM2 | | E2-P-TUE-P1-24 |
| Poplawsky, Jonathan D. | B1-0-WED-PM1 | Prikryl, Radek | C1-II-P-THU-P2-6 | Qin, Lu | B3-O-MON-PM1 |
| Popov, Aleksander | B5-P-TUE-P1-20 | | B8-O-THU-AM2, | Quadakkers, J. | C1-H-TUE-PM1 |
| Popov, Aleksandr | B6-P-TUE-P1-30 | Prima, Frédéric | B8-O-THU-AM2 | Quagliotto, Pierluigi | A7-II-P-THU-P2-2 |
| Popovich, Anatoly | C1-P-TUE-P1-16 | Primetzhofer, Daniel | C1-H-MON-AM2 | Quartarone, E. | E2-0-M0N-AM2 |
| Popp, Robert | B3-0-TUE-PM1 | Primig, Sophie | B1-O-THU-PM1, B3-P-TUE-P1-4 | Quennet, Marcel | D3-O-WED-PM2 |
| Popp, Uwe | C4-0-THU-PM1 | Prins, Tim | A5-0-TUE-PM2 | Quer, Arndt | D1-O-TUE-PM1 |
| Poppe, Jan | A5-O-MON-AM2 | Proença, Maria Fernanda | C1-O-TUE-PM2 | Querfurth, Frank | D5-H-FRI-AM2 |
| Poquillon, Dominique | B3-O-MON-PM2 | Profumo, Antonella | E1-P-TUE-P1-4 | Quidant, Romain | F2-0-WED-AM2 |
| Porcher, Willy | E2-O-MON-PM2 | | B11-0-THU-AM2, | Quinta da Fonseca, João | D2-O-MON-PM1 |
| Poroniscu, C. | E4-0-WED-PM2 | Prokoshkin, Sergey | C10-H-WED-AM2 | Quirk, James | A7-I-P-TUE-P1-9 |
| Porosnicu, C. | E4-P-THU-P2-1 | Proriol Serre, Ingrid | D9-O-TUE-AM2, | Quirk, James B | A7-O-MON-PM2 |
| Porras, Juan | D3-H-WED-AM2 | . • | B11-I/K-MON-AM2 | R | 00 D TIII D0 10 |
| Porter, David | C10-P-THU-P2-11 | Prosgolitis, Christos | C6-O-TUE-PM1 | R Hanke, | C8-P-THU-P2-18 |
| Portolés, María Teresa | F1-O-TUE-AM2, F1-P-TUE-P1-3 | Prosvirnin, Dmitriy Protasova, Svetlana | B4-H-THU-PM2 C5-P-THU-P2-6 | R Kobold, R. Cruz-Chú, Eduardo | C8-P-THU-P2-18 D10-H-THU-PM1 |
| Porton, Michael | C4-O-THU-AM2 | Protasova, Svettana Provatidis, Christoforos | C9-O-FRI-AM2 | | |
| Porton, Michaet Posada Perez, Viviana Marcela | F1-0-TUE-PM2 | Providakis, Nikolaos | B10-0-M0N-PM1 | R. Gonzalez-Elipe, Agustin | A7-0-FRI-AM2 |
| • | H1-H-TUE-AM2 | · | E3-P-TUE-P1-5, | Raab, G. I. | C10-P-THU-P2-10 |
| Post, Brian | | Prud'homme, Nathalie | A7-II-P-THU-P2-7 | Raab, G.I. Raabe, Dierk | C10-O-THU-PM2 C4-O-WED-PM2 |
| Potanina Ekaterina | B5-0-TUE-AM2, | | | Madde, Dietk | C4 O WED I MZ |
| Potanina, Ekaterina Poulia, Anthi | B6-P-TUE-P1-30 C5-P-THU-P2-18 | Pruefer, Thomas Prüfer, Thomas | C11-H-THU-AM2 C11-O-THU-AM2 | Number Diet K | 04 0 WED 1 112 |

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| | D5-O-THU-PM1, | Ramirez, Antonio | D4-0-WED-PM1 | Remes, Heikki | B10-P-TUE-P1-11 |
| | B1-0-FRI-AM2, B2-0-TUE-PM2, | Ramírez-Castellanos, Julio | A7-II-P-THU-P2-1, | Rémy, Bonzom | D6-I/K-FRI-AM2 |
| Raabe, Dierk | E3-0-MON-AM2, | Manifez Castettanos, Julio | A7-II-P-THU-P2-4 | Rémy, Pirès | B8-O-THU-AM2 |
| | C4-0-FRI-AM2, | Ramírez-Jiménez, Rafael | A7-I-P-TUE-P1-7, A7-II-P-THU-P2-9 | Ren, Feng | D1-O-THU-PM2 |
| | B1-I/K-FRI-PM1, C4-P-THU-P2-13 | Ramírez-Jiménez, Rafael | A1-H-FRI-PM1 | Ren, Shan | H2-O-MON-PM1 |
| Raabe, Dierk | B1-0-TUE-PM2 | Ramm, Jürgen | C1-O-WED-AM2 | Renaud, Adèle | A5-O-MON-AM2 |
| RABAHI, Lyacine | B3-P-TUE-P1-7 | Ramos, Ana Sofia | C6-O-MON-PM1 | Renaud, Gilles | C11-I/K-FRI-AM2 |
| Rabal-Escarbajal, Julio Andrés | E3-0-WED-PM2 | | | Renault, Alexandra | D9-I/K-WED-PM1 |
| Rabanal, María Eugenia | A7-0-WED-PM2 | Ramos, Lizandra | F1-O-TUE-PM2 | RENAULT, Pierre Olivier | D4-0-TUE-AM2 |
| • | | Ramos-Sánchez, Guadalupe | A1-0-FRI-PM1 | NEI WIGEL, FRONTO GUITO. | B11-0-TUE-PM1, |
| Rabe, Torsten | C9-O-THU-PM2 | RAMOUL, Meriem | B11-O-WED-PM2 | Renk, Oliver | B4-0-FRI-PM1, |
| Rabkin, Eugen | B2-P-TUE-P1-4, E1-0-TUE-PM2, | Ranc, Nicolas | B11-0-TUE-AM2 | | B4-0-THU-PM1 |
| | C5-P-THU-P2-10 | Ranc, Václav | A1-0-FRI-PM1 | Renon, Vincent | B11-0-THU-AM2 |
| Rabkin, Eugene | D1-0-WED-PM1 | Ranchal, Rocío | A7-I-P-TUE-P1-14, A7-O-THU-AM2 | Renou, Gilles | B1-O-WED-PM1, |
| Racca, Luisa | F3-P-THU-P2-7 | Randall, Nicholas | D9-P-TUE-P1-3 | D | C1-O-MON-PM2 |
| Raccichini, Rinaldo | E2-P-TUE-P1-24 | • | E2-0-MON-AM2 | Reponen, Antti | B8-O-WED-AM2 |
| Racineux, Guillaume | C6-O-TUE-AM2 | Randazzo, Nico | | Repp, Felix | F6-O-THU-PM2 |
| Rack, Alexander | D1-O-FRI-AM2 | Ranella, Anthi | F6-O-FRI-PM1 | | C7-O-TUE-PM2, D1-P-TUE-P1-10, |
| Rackel, Marcus | D1-O-THU-PM1 | Rangou, Sofia | A9-0-THU-PM2 | Requena, Guillermo | B2-0-TUE-AM2, |
| | A7-0-MON-PM2, | Ranieri, Giuseppe Antonio | E2-P-TUE-P1-20 | Requeita, Outterino | B2-O-TUE-PM1, |
| Rackham, Jonathan | A7-I-P-TUE-P1-9 | Rankouhi, Buzz | C4-O-THU-PM2 | | C4-P-THU-P2-15, C4-P-THU-P2-16 |
| Radecka, Marta | C1-O-TUE-AM2 | Raoux, Simone | E3-P-TUE-P1-17, A7-II-P-THU-P2-17 | Requena, Guillermo | C6-O-MON-PM1 |
| | D9-O-TUE-PM1, | Raptis, Yannis | E3-0-MON-AM2 | Rettig, Ralf | D5-H-FRI-AM2 |
| Radiguet, Bertrand | D9-O-MON-PM1, | · | B1-0-THU-PM2 | Reulet, Philippe | E6-O-FRI-PM1 |
| Padiahian Masuam | B4-0-THU-AM2 A9-0-FRI-AM2 | Rarhi, Nirmalya | | | H3-O-MON-AM2 |
| Radjabian, Maryam | | Råsander, Mikael | A7-O-MON-PM2, A7-I-P-TUE-P1-9 | Reuter, Antti | H3-O-MON-AM2 |
| Radlwimmer, Harald | B11-0-M0N-PM1 | Rashad, Ahmad | F1-0-M0N-AM2 | Reuter, Markus A. | |
| Radlwimmer, Harald | C7-0-TUE-PM2 | Rassizadehghani, Jafar | B1-P-THU-P2-11 | Reveron, Helen | F5-O-FRI-AM2, F5-O-FRI-AM2 |
| Radnóczi, G. Z. | D2-P-TUE-P1-16 | Rath, Markus | D2-O-MON-PM1 | Revo, Sergiy | B6-P-TUE-P1-11 |
| Radovic, Miladin | B5-0-MON-AM2 | Rathmayr, Georg | B4-P-THU-P2-5 | Reyes, DF. | D2-O-THU-AM2 |
| Radović, Miljana | B6-P-TUE-P1-26 | Rátkai, László | B2-0-TUE-PM2 | Reynaldo Meneses Costa, Hector | B1-P-THU-P2-9 |
| Radowski, Piotr | B1-0-WED-PM1 | Ratke, Lorenz | C8-P-THU-P2-22 | Reynaud, Cecile | E2-O-MON-PM2 |
| Radu, Adrian | E1-P-TUE-P1-3, A1-P-THU-P2-13 | Ratochka, Il'ya | E6-0-FRI-PM1 | Reynaud, Pascal | F5-O-FRI-AM2 |
| Radu, Florin | D1-0-THU-PM2 | | | Reynosa, Ana Cecilia | A1-P-THU-P2-6 |
| Raducanu, Doina | F4-P-TUE-P1-1 | Ratschinski, Ingmar | D2-P-TUE-P1-20 | Rey-Stolle, Ignacio | D2-O-TUE-PM1 |
| Radziszewska, Agnieszka | C1-I-P-TUE-P1-6 | Raygan, Shahram | B1-P-THU-P2-11 | , | D1-0-WED-PM2 |
| Rauziszewska, Aylileszka | B3-0-WED-AM2, | Raymond, Stephane | H1-O-TUE-PM1 | Rezvani, Javad Seyed | |
| Rae, Catherine | B3-O-WED-PM1 | Rayson, Mark J. | D2-O-WED-AM2 | Rheingans, Bastian | C6-H-MON-PM1 |
| Rae, Catherine MF | D2-H-THU-AM2 | Razavi-Khosroshahi, Hadi | C10-I/K-WED-AM2 | Rhodes, Kaite | B3-0-WED-PM1 |
| Rae, Cathie | B3-0-M0N-AM2 | Razorenov, Sergey | B4-0-THU-PM1 | Rhodes, Katie | B11-0-M0N-AM2 |
| Rafaja, D. | C10-H-THU-AM2 | Razumovskii, Igor | B3-O-MON-PM2 | Riazanova, Anastasia | D2-O-THU-PM1 |
| Rafaja, David | C10-H-THU-AM2 | Razumovskiy, Vsevolod | B3-O-MON-PM2 | Ribarik , Gabor | B3-O-MON-PM1 |
| Rahamim, Or | B6-0-WED-AM2 | Reale, Andrea | B7-0-FRI-PM1 | Ribarik, Gabor | D1-O-THU-AM2 |
| Rahier, Hubert | H2-O-MON-PM1 | Rebaza, Arles G. | D8-P-TUE-P1-11 | Ribas, Luís | C5-P-THU-P2-8 |
| | A3-0-MON-AM2 | Rebollar, Esther | A7-H-TUE-PM2 | Ribeiro Peçanha, Juliana | B1-P-THU-P2-9 |
| Rahmat, Meysam | | Redinger, Alex | E3-0-M0N-AM2 | Ribeiro, Fabienne | B1-0-FRI-AM2 |
| Rahmoun, Khadija | D4-P-TUE-P2-7 | REDNYK, Andrii | E1-0-TUE-AM2 | Ribot, Patrick | E3-P-TUE-P1-5, |
| Rai, Alok Kumar | E2-P-TUE-P1-26 | Reger, Jan | E6-0-THU-PM2 | | A7-II-P-THU-P2-7 |
| Raif, El Mostafa | F1-0-TUE-AM2 | Regev, Michael | C6-I/K-MON-AM2 | RIBOT, Patrick | C1-O-TUE-AM2 |
| Rainer, Lindau | E4-0-WED-AM2 | Regoutz, Anna | C5-P-THU-P2-16 | Ricci, Enrica | D9-P-TUE-P1-10, C5-O-THU-PM2, |
| Rainforth , W.Mark | B2-0-WED-PM1 | Reguero, Victor | E2-0-TUE-PM2 | Nicol, Ellifea | C5-O-THU-PM2 |
| Dainforth Mark | B1-0-TUE-PM2, | Requette, Jeremy | C4-0-THU-PM1 | Richard, Marie-Ingrid | D1-O-WED-PM1 |
| Rainforth, Mark | B1-H-THU-PM2, B2-O-WED-AM2 | Reheis, Nikolaus | C6-0-TUE-AM2 | Richard, Nicolas | C11-P-THU-P2-10 |
| Raisin, Sophie | F1-0-M0N-PM2 | Reif, Michael | C1-0-FRI-PM1 | Richardson, I.M. | C4-O-THU-PM2 |
| Raissi, pouria | C9-O-FRI-AM2 | Reihanian, Mohsen | B6-P-TUE-P1-17 | Richardson, Ian | D1-0-THU-AM2 |
| Rajasekharan, Anand-Kumar | D2-0-THU-PM1 | Reinhardt, Carsten | | | C1-O-TUE-AM2, |
| Rajput, Parasmani | B11-0-M0N-PM2 | • | C2-O-MON-PM2 | Richert, Maria | B2-P-TUE-P1-19 |
| Raju, Selva | H1-O-TUE-PM1 | Reinhardt, Cartsen | C4-0-WED-PM1 | Richert, Maria | C6-P-TUE-P1-13 |
| Ram, Shanker | A7-0-TUE-PM2 | | C6-O-TUE-AM2, C4-P-THU-P2-8, | Richter, Gunther | A2-O-THU-PM1, |
| • | | Reis, Ana | C4-P-THU-P2-9, | · | C1-I-P-TUE-P1-9 |
| Ramadan, Rashad | B1-P-THU-P2-18 | | C4-0-WED-PM1, | Richter, S. | B1-0-TUE-PM2 |
| Ramadan, Rehab | F3-P-THU-P2-3 | Pais Marcos A I | C9-P-THU-P2-11 A1-0-FRI-AM2 | Rico, Victor | C1-H-THU-PM1 |
| Ramajayam, Mahendra | B2-0-M0N-PM1 | Reis, Marcos A. L. | | Riecken, Björn | B6-O-TUE-PM2 |
| Ramanan, Nitya | B11-0-M0N-PM2 | Reis, Maria Helena da Silva | A3-P-TUE-P1-7 | Riedinger, Andreas | A5-H-WED-PM1 |
| Ramard, Constant | C6-O-TUE-PM1 | Reiser, Jens | B4-0-FRI-AM2 | Riedl, Helmut | C1-H-MON-AM2, |
| Ramasamy, Parthiban | B9-H-THU-PM1 | Reitz, Rüdiger | B10-O-WED-AM2 | | C1-O-WED-PM2 |
| Ramasse, Quentin | E3-P-TUE-P1-20, D2-H-WED-AM2 | Rekondo , Alaitz | A3-0-TUE-AM2 | Riekehr, Stefan | B11-P-TUE-P1-6 |
| Ramaswamy, Padmini | B7-0-THU-AM2 | Reller, Armin | H3-O-MON-AM2, XXX | Rielli, Vitor | B2-0-THU-PM1 |
| ,, | | Rementeria, Rosalia | B11-O-MON-AM2 | Riera, Maria Rosa | H3-P-TUE-P1-1 |
| Rameau, Bruno | A3-0-TUE-AM2 | Rementeria, Rosalia | B1-0-WED-PM1 | Ries, Berndt | C5-P-THU-P2-11 |
| Ramirez Gutierrez, Cristian Felipe | B5-P-TUE-P1-23 | • | B1-P-THU-P2-3 | Rieth, Michael | E4-O-THU-AM2, B4-O-FRI-AM2 |
| Ramirez Patiño, Juan Fernando | F1-0-TUE-PM2 | Rementeria, Rosalia | טו ר־וחט־۲2־3 | | D4 O I NI AMZ |

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| Riise, H.N. | E3-H-WED-PM1 B1-O-FRI-PM1, |
| Rijkenberg, Arjan | B1-H-THU-PM2 |
| Rijnders, Guus | A8-I/K-TUE-AM2 |
| Riley, Jason | H2-P-TUE-P1-10 |
| Rinaldi, Federica | F2-P-THU-P2-1 |
| Rinaldi, Marianna | C4-O-THU-PM1 E3-H-MON-PM2 |
| Ringgaard, Erling Rink, Marta | D4-O-TUE-AM2 |
| | H1-H-MON-PM2, |
| Rios, Orlando | H1-H-MON-PM2 |
| Rios, Orlando | H1-H-TUE-AM2 |
| Riou, Benoit | A5-O-TUE-PM1 C8-P-THU-P2-1 |
| Riposan, Iulian Risbet, Marion | C6-O-MON-AM2 |
| Risse, Jeroen | C4-O-WED-PM2 |
| · | C11-P-THU-P2-6, |
| Ritala, Mikko | C11-P-THU-P2-7 |
| Ritscher, Anna | D3-O-WED-PM2 |
| Riva, Sephira | B8-O-THU-PM2 |
| Rival, Nicolas Rivera-Diaz-del-Castillo, Pedro | A7-II-P-THU-P2-23 D8-O-FRI-AM2 |
| Rivera-Díaz-del-Castillo, Pedro | D6-O-FRI-PM1 |
| Rivera-Díaz-del-Castillo, Pedro Eduardo Jose | B1-0-FRI-AM2 |
| Riziotis, Christos | A7-I-P-TUE-P1-17 |
| Rizos, Eleftherios | F3-0-THU-PM1 |
| Rizzi, P. | A7-0-THU-PM1 |
| Rizzuto, Carmen | A9-P-THU-P2-2, |
| Roa, Joan | A9-O-FRI-PM1 B10-O-TUE-PM2 |
| Roa, Joan Josep | C1-O-MON-PM1 |
| Robach, Odile | D1-O-FRI-AM2 |
| Roberto, James | H1-I/K-MON-AM2 |
| Robiglio, Matteo | C9-I/K-FRI-AM2 |
| ROBIN, Vincent | C6-O-TUE-AM2 |
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D1-0-FRI-AM2

A6-0-FRI-PM1

A2-I/K-THU-AM2

B3-0-M0N-PM2

C11-O-THU-PM1

C5-O-THU-PM2 B2-O-TUE-AM2,

D1-0-THU-PM1, C4-P-THU-P2-15

B5-P-TUE-P1-18 C3-O-THU-PM1

A7-H-THU-PM2 D1-O-THU-AM2

B3-0-M0N-PM1

C1-O-WED-PM1

A7-H-TUE-PM1

H2-0-TUE-PM1

D2-I/K-TUE-PM2 A8-H-MON-PM1,

A8-0-MON-PM1

A3-P-TUE-P1-9

C5-O-FRI-AM2

C4-P-THU-P2-12

A2-H-THU-AM2

D2-O-MON-PM1

A6-0-THU-PM2

D5-O-THU-PM2

B3-0-WED-PM1

H1-O-TUE-PM1

C10-0-THU-AM2

E6-0-THU-PM1

C6-0-TUE-PM1

C6-O-MON-AM2

F6-0-THU-PM2

B2-0-WED-PM1

E6-0-THU-PM1

C6-O-MON-PM2

B2-0-M0N-PM2

E1-0-TUE-PM2 A7-0-THU-PM2,

F4-0-M0N-PM1

A7-H-MON-PM2

D8-O-WED-PM1

C6-0-TUE-AM2

C5-0-FRI-AM2

C4-O-WED-AM2

C4-0-THU-PM2 B1-0-THU-PM1, B1-0-THU-AM2

E6-P-THU-P2-3

B9-0-THU-AM2

C4-O-THU-PM1

D8-P-TUE-P1-11

H1-0-M0N-AM2 E3-0-WED-PM1, E3-0-WED-PM1, E3-P-TUE-P1-6,

E3-P-TUE-P1-9, E3-P-TUE-P1-16, C11-P-THU-P2-13

H3-O-MON-PM1

D2-O-THU-AM2 E4-O-WED-PM1,

E4-0-WED-PM1, B11-0-MON-PM2

E6-P-THU-P2-3

C11-P-THU-P2-13

B11-0-TUE-AM2 B4-0-THU-PM2,

B8-0-THU-PM2

D10-H-WED-AM2

D10-I/K-THU-AM2

| Schuler, Thomas | D9-I/K-WED-PM2, D10-O-FRI-AM2, D8-O-WED-PM1 |
|---|--|
| Schulz, Edgar | C1-I/K-WED-AM2 |
| Schumacher, Axel | C6-H-MON-PM1 |
| Schumacher, Jens | E6-0-THU-AM2 |
| Schumann, Eric | C2-O-MON-PM2 |
| Schumann, Helge | C1-I-P-TUE-P1-9 |
| Schunk, Christopher | B4-0-FRI-AM2 |
| Schuster, Marcia | A3-P-TUE-P1-10 |
| Schütze, Michael | B3-0-THU-AM2 |
| Schutzius, Thomas | C1-O-THU-AM2 |
| Schwab, Yannick | F2-O-WED-AM2 |
| Schwaiger , Ruth | D4-0-MON-PM1 |
| Schwarz, Katharina | B4-P-THU-P2-10 |
| Schwarz, Torsten | E3-0-MON-AM2, E3-0-WED-PM1 |
| Schwarze, Christian | D5-O-THU-PM1, D5-O-FRI-PM1 |
| Schwebler, Thomas | A3-O-MON-AM2 |
| Schwedt, Alexander | B1-I/K-THU-AM2 |
| Schweizer, Christoph | B10-P-TUE-P1-7 |
| Schwingenschlogl, Udo | D10-I-P-TUE-P1-2, D10-I-P-TUE-P1-3 |
| Scoicaru, Laurentiu Octavian | A7-II-P-THU-P2-3 |
| Scott, T B | E4-0-THU-AM2 |
| Scrivener, Karen | D10-II-P-THU-P2-4 |
| Scudino, Sergio | B11-O-WED-AM2 |
| Sebastian, Abu | C11-O-THU-PM2 |
| Sebastian, Victor | F2-P-THU-P2-2, A5-0-TUE-PM2, F2-0-WED-AM2, A1-0-THU-PM2 |
| Sebek, Martin | B5-P-TUE-P1-19 |
| Sébileau, Jean-Charles | E6-0-THU-PM1 |
| Sebros, Fannis | D3-P-THU-P2-4 |
| Secret, Emilie | A5-0-MON-PM1 |
| Seddik, Massarat | B6-P-TUE-P1-18 |
| Sedigh, Maryam | B6-0-TUE-PM2 |
| Sedighi, Mona | A7-0-WED-AM2 |
| Seetharaman, Sridhar | B1-0-TUE-PM2 |
| Sefta, Faiza | D9-I/K-WED-PM1 |
| Seichter, Sandra | B10-P-TUE-P1-5 |
| Seidametova, Gulzar | B11-I/K-MON-AM2 |
| Seidel, Stefan | D3-P-THU-P2-11 |
| Seifert, Hans Juergen | H1-I/K-MON-PM2, B2-O-TUE-PM2 |
| Seifert, Hans Jürgen | E2-0-MON-PM1 |
| Seils, Sascha | E4-0-WED-AM2 |
| Seisenbaeva, Gulaim A. | E3-P-TUE-P1-5 |
| Seitz, Michael | E4-0-THU-AM2 |
| SEKBAN, Dursun Murat | C6-O-MON-AM2 |
| Sekban, Murat | C10-O-WED-PM2, C6-O-MON-AM2 |
| Sekkat, Zouheir | E3-0-TUE-PM2 |
| Selegård, Linnéa | C1-O-FRI-PM1 |
| Selimis, Alexandros | F6-0-FRI-PM1 |
| Selmenskikh, Natalia | B1-0-THU-PM2 |
| Semenova, I. P. | C10-P-THU-P2-10 C10-O-THU-PM2 |
| Semenova, I.P. | B4-0-THU-PM2 |
| Semenova, Irina Semerok, Alexandre | C2-O-TUE-AM2 |
| Semiatin, Lee | C10-O-THU-AM2 |
| Semiatin, Lee Semprimoschnig , Christopher | C4-0-WED-PM1 |
| Semprimoschnig, Christopher | A6-0-THU-PM2, C4-0-THU-PM1, A6-0-FRI-AM2, A6-0-FRI-AM2 |
| Sempros, George | A2-0-THU-PM1 |
| Şen, Canhan | B5-0-M0N-PM2 |
| Senani, Sophie | D4-O-TUE-AM2 |
| Sencan Sahin, Arzu | B10-P-TUE-P1-10 |
| Senda, Tomoya | B11-P-TUE-P1-12 |

| Sendogdular, Levent | A7-H-WED-AM2 |
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| Senez, Vincent | A3-O-MON-PM2, C1-II-P-THU-P2-19 |
| Senn, Mark | A8-H-TUE-AM2 |
| Senn, Robin | E4-0-THU-AM2 |
| SENNOUR, Mohamed | C2-O-TUE-PM1 |
| Senokos, Evgeny | E2-O-TUE-PM2 |
| Sentker, Lena | C4-0-FRI-PM1 |
| Seo, Eunjung | B1-0-WED-AM2 |
| Seo, In-Shik | B1-0-THU-AM2 |
| Seol, J.B. | B4-P-THU-P2-7 |
| Seol, Jae-Bok | D2-P-TUE-P1-19, B1-O-TUE-PM1, D2-O-TUE-PM2 |
| Sepiol, Bogdan | D1-P-TUE-P1-28 |
| Sepulveda, Alfonso | E2-0-TUE-PM1 |
| Serantes, David | A2-H-WED-PM2 |
| Serdechnova, Maria | C1-O-THU-PM2 |
| Serebryany, Vladimir | B4-P-THU-P2-1 |
| Sereda, Olha | C4-0-WED-AM2, F4-0-MON-AM2 |
| Serefoglu Kaya, Melis | C8-O-THU-PM1, C8-P-THU-P2-23 |
| Serefoglu, Melis | C8-O-FRI-PM1 |
| Seretis, George | C9-O-FRI-AM2 |
| Sergi, Francesco | E2-0-MON-AM2 |
| Serp, Philippe | A5-H-TUE-AM2 |
| Serra, Anna | D9-O-TUE-PM1 |
| Serra, Filipe | E3-O-TUE-PM2 |
| Serra, JM | E3-O-TUE-PM2 |
| Serra, João | E3-O-TUE-PM2 |
| Serrano Garcia , Marta | D9-I/K-MON-AM2 |
| Serrano García, Marta | D9-I/K-MON-AM2 |
| Serrano, María Concepcion | F1-0-TUE-AM2 |
| | |
| Serrano, Marta | D9-O-MON-AM2, B1-O-THU-PM2, D9-P-TUE-P1-19 |
| Serrano, Marta Serrano-Sevilla, Inés | B1-0-THU-PM2, |
| · | B1-O-THU-PM2, D9-P-TUE-P1-19 |
| Serrano-Sevilla, Inés | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, |
| Serrano-Sevilla, Inés Serre, Christian | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2 B7-P-THU-P2-3 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM2 |
| Serrano-Sevilla, Inés Serre, Christian Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčik, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM2 D10-H-THU-PM2, D10-H-THU-PM2 |
| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM2 D10-H-THU-PM2, D10-0-THU-PM2 D8-P-TUE-P1-15 |
| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. Sgreccia, Emanuela | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-PP1-3 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM2 D10-1-THU-PM2, D10-0-THU-PM2 D8-P-TUE-P1-15 E1-P-TUE-P1-2 |
| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. Sgreccia, Emanuela Shabbir, Huzaifa | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM2 D10-H-THU-PM2, D10-0-THU-PM2 D8-P-TUE-P1-15 E1-P-TUE-P1-2 F6-0-FRI-AM2 |
| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. Sgreccia, Emanuela Shabbir, Huzaifa Shackleford, Cameron | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM2 D10-H-THU-PM2 D8-P-TUE-P1-15 E1-P-TUE-P1-2 F6-0-FRI-AM2 C4-0-THU-PM2 |
| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. Sgreccia, Emanuela Shabbir, Huzaifa Shackleford, Cameron Shafarman, W.N. | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM1 E5-0-THU-PM2 D10-H-THU-PM2 D10-H-THU-PM2 D10-O-THU-PM2 D8-P-TUE-P1-15 E1-P-TUE-P1-2 F6-0-FRI-AM2 C4-0-THU-PM2 D1-P-TUE-P1-2 |
| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. Sgreccia, Emanuela Shabbir, Huzaifa Shackleford, Cameron Shafarman, W.N. Shah, Nilay | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM2 D10-H-THU-PM2, D10-0-THU-PM2 D8-P-TUE-P1-15 E1-P-TUE-P1-2 F6-0-FRI-AM2 C4-0-THU-PM2 D1-P-TUE-P1-27 H2-P-TUE-P1-17 |
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| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. Sgreccia, Emanuela Shabbir, Huzaifa Shackleford, Cameron Shafarman, W.N. Shah, Nilay Shah, Zaheen Shababbaspour, Hazhir | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM1 E4-0-WED-PM2 D10-H-THU-PM2, D10-O-THU-PM2 D8-P-TUE-P1-15 E1-P-TUE-P1-2 F6-0-FRI-AM2 C4-0-THU-PM2 D1-P-TUE-P1-27 H2-P-TUE-P1-10 E4-P-THU-P2-11 |
| Serrano-Sevilla, Inés Serruys, Yves Servant, L Servant, Laurent SERVANT, Laurent Servet, Bernard Setijadi, Eki Setijadi Setman, Daria Settineri, Luca Seunghun, Lee Ševčík, Radek Seyller, Thomas Sezen, Hikmet Seznec, Herve Sgambati, Antonella Sgobba, Stefano Sgouros, Aris Sgourou, E. N. Sgreccia, Emanuela Shabbir, Huzaifa Shackleford, Cameron Shafarman, W.N. Shah, Nilay Shah, Zaheen | B1-0-THU-PM2, D9-P-TUE-P1-19 F2-0-WED-PM1 B7-0-WED-PM1, B7-0-THU-AM2, D3-0-THU-AM2, F3-0-THU-PM1, B7-0-THU-PM2, B7-P-THU-P23 E4-0-WED-PM1, E4-H-TUE-PM2 C2-P-TUE-P1-7 E2-P-TUE-P1-9 A3-0-MON-PM1 A7-II-P-THU-P2-7 E1-P-TUE-P1-8 B4-0-THU-AM2 C9-I/K-FRI-AM2 C1-0-THU-PM1 B11-P-TUE-P1-4 C1-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-AM2 C4-0-WED-PM1 E4-0-WED-PM1 D1-H-FRI-AM2 A5-H-WED-AM2, F3-0-THU-PM2 D1-H-THU-PM2 D1-H-THU-PM2 D1-H-THU-PM2 D1-H-THU-PM2 D1-H-THU-PM2 D1-H-THU-PM2 D1-P-TUE-P1-2 F6-0-FRI-AM2 C4-0-THU-PM2 D1-P-TUE-P1-27 H2-P-TUE-P1-10 E4-P-THU-P2-11 |

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| Shahriari, Davood | B1-0-THU-PM2 | | B6-0-TUE-PM2, | Sinclair, Derek | B5-O-MON-PM2 |
|--|--------------------------------|---------------------------------|-----------------------------------|---------------------------------------|----------------------------------|
| Shakerifard, Behnam | B11-0-WED-PM2 | Shvyndina, Natalia | A8-O-TUE-AM2 | Singh, Alok | B2-0-TUE-PM1 |
| Shamlaye, Karl | B9-H-THU-PM1, | Si, Shanshan | D4-O-MON-AM2 | Singh, Nirpendra | D10-I-P-TUE-P1-2, |
| | B9-0-THU-AM2 | Siarov, Stefan | C4-O-THU-PM1, C4-O-THU-PM1 | • • | D10-I-P-TUE-P1-3 |
| Shamoto, Eiji | C9-O-FRI-AM2 | Siaugue, Jean-Michel | A5-O-MON-PM1 | Singh, Satish Kumar | E6-0-FRI-PM1 |
| Shan, Yao V | D10-0-FRI-AM2 | Siciliano, Fulvio | C10-O-FRI-AM2 | Singheiser, Lorenz | C1-H-TUE-PM1 |
| Shang, Shun-Li | D8-O-WED-PM1 | Sidorenko, Daria | C1-O-TUE-PM1, | Sinha, Divya | B10-0-WED-PM1 |
| Shang, Yong | B3-0-TUE-AM2 | · | B6-O-TUE-PM2 | Sinico, Marco | C1-O-FRI-AM2 |
| Shangina, D.V. | C10-P-THU-P2-3 B4-0-THU-AM2 | Sidorenko, Sergiy | D8-P-TUE-P1-9 | Siozos, Panayiotis | C2-0-TUE-PM1 B5-P-TUE-P1-4 |
| Shangina, Daria Shanks, Robert A. | F1-P-TUE-P1-15 | Siebentritt, Susanne | E3-0-M0N-AM2 | Sīpola, Inta Siracusano, Stefania | E1-H-TUE-PM1 |
| Slidliks, Rubert A. | D5-0-THU-PM1, | Siegel, Jan | F6-O-FRI-PM1, A7-O-FRI-AM2, | Sironi, Angelo | B7-0-THU-PM2 |
| Shanthraj, Pratheek | B2-0-TUE-PM2 | | A7-0-FRI-AM2 | Sirotin, Aleksandr | C10-0-WED-AM2 |
| Shapeev, Alexander | B8-O-WED-PM2 | Siengchin, Suchart | A3-P-TUE-P1-18 | Sisak-Jung, Dubravka | D1-0-FRI-PM1 |
| Shapovalov, Yuriy | B8-P-THU-P2-13 | Sietsma, J | B1-0-WED-AM2 | Sismanis, Panagiotis | C7-0-TUE-PM2 |
| Sharma, Amit | C10-H-WED-PM1 | | D9-0-MON-PM1, | Sitdikov, Oleg | B2-P-TUE-P1-15 |
| Sharma, Chander Shekhar | C1-O-TUE-PM2 | Sietsma, Jilt | B11-O-WED-PM1, B1-O-TUE-PM2, | Sitte, Werner | E1-H-TUE-AM2 |
| Sharma, Rakesh | F4-P-TUE-P1-4 | | B1-0-WED-PM1, | | C7-O-TUE-PM2, |
| Sharp, Jo | B1-H-THU-PM2 | ČW.L. IX D.L. | B1-0-WED-PM2 | Six, Jakob | B11-0-M0N-PM1 |
| Shaw, Allison | A3-P-TUE-P1-6 | Šiffalovič, Peter | D1-O-TUE-AM2 | Sjåstad, Anja Olafsen | A2-0-THU-PM1 |
| Shaw, Peter | A5-P-TUE-P1-1 | Signetti, Stefano | F6-0-THU-PM1 | Sjögren, Torsten | C4-P-THU-P2-1 |
| Shchyglo, Oleg | B8-O-WED-PM1 | Signorile, Matteo | D1-P-TUE-P1-24 | Sjöström, Johnny | C4-O-THU-AM2 |
| Shearer, Greig C. | B7-0-FRI-AM2 | Sikora, Andreas | B10-O-TUE-PM2 | Sk, Md. Basiruddin | B1-0-THU-PM2 |
| Shechtman, Lev | D1-0-THU-AM2 | Sikorav, Laurence | B3-0-TUE-PM1 | Skákalová, Viera | A7-0-WED-PM1 |
| Sheftel, Elena | C1-II-P-THU-P2-10 | Silbernagl, Dorothee | D2-P-TUE-P1-11, D2-O-THU-PM1 | Skandalis, Athanasios | A3-P-TUE-P1-2, |
| Sheikh, Saad | B3-0-THU-AM2 | Silva Gomes, Lincoln | A1-P-THU-P2-3 | | C1-II-P-THU-P2-16 |
| Shen, Hui | C5-O-FRI-PM1 | Silva, E.P. | E1-0-TUE-PM2 | Skarlatos, Dimitrios | C11-O-THU-PM1, C11-O-THU-PM1 |
| Shen, Xi | D2-H-TUE-PM2 | Silva, Erenilton | B2-0-TUE-PM1 | Skiba, Stéphane | D3-O-WED-PM2 |
| Shen, Yang | C6-P-TUE-P1-6 | Silva, Filipe | F6-P-THU-P2-1 | Skiera, Erik | B11-0-TUE-PM2 |
| Shen, Zhijian | C8-O-THU-AM2 | Silva, Filipe | F1-0-TUE-PM2 | Skolek, Emilia | B1-0-WED-PM1 |
| Shepherd, Joanna | F2-P-THU-P2-3 | Silva, Filipe S | F4-0-M0N-PM1 | | B10-0-TUE-PM2, |
| Shepherd, Joey | F2-P-THU-P2-7 | Silva, José | E3-0-TUE-PM2 | Skolianos, Stefanos | C1-I-P-TUE-P1-20 |
| Sheremetyev, Vadim | C10-H-WED-AM2 | Silva, M Beatriz | C9-P-THU-P2-11 | Skordaris, Georgios | C9-P-THU-P2-9 |
| Sherkat, Frank | F1-P-TUE-P1-15 | Silvayeh, Zahra | C6-0-TUE-PM1 | Skordaris, Georgios | C9-I/K-THU-AM2, |
| Sherwin, Susanna | C2-O-MON-PM2 | Silvestre-Albero, Joaquin | B7-0-THU-PM2 | | C9-H-THU-AM2 |
| Shevtsov, Maxim | F2-O-WED-PM1 | Sima, Adrian | E4-0-TUE-PM2 | Skordos, Alex | A3-0-MON-AM2 |
| Shevyrtalov, Sergey | H1-P-TUE-P1-1 | Šíma, Marek | B11-0-WED-PM1 | Skorodumova, Natalia V. | D10-H-FRI-PM1 |
| Shi, Hao | E4-P-THU-P2-3, | Simagina, Anna | F2-P-THU-P2-8 | Skotadis, E. | C11-P-THU-P2-16 C2-O-MON-PM1, |
| | D9-P-TUE-P1-5 | Simak, Sergei I. | D10-H-FRI-PM1 | Skoulas, Evangelos | C2-O-MON-PM1, |
| Shi, Wen | C9-O-THU-PM2 | Simard, Benoit | A3-0-MON-AM2 | Skoulas, Evangelos | F6-0-FRI-PM1 |
| Shibata, Hiroyuki | C8-O-THU-AM2 | omaraj ponore | E2-P-TUE-P1-1, | Skoulikidou, Maria-Christina | C11-O-THU-PM1 |
| Shibayama, Atsushi | H2-O-MON-PM2 | Simari, Cataldo | E2-P-TUE-P1-8, | Skoumalová, Zuzana | D9-O-MON-PM2 |
| Shibayama, Yuki | B2-P-TUE-P1-5 | | E2-P-TUE-P1-20 | Skrotzki, Werner | B4-H-FRI-AM2, B8- |
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| Shimono, Masato | B9-0-THU-AM2 | | A2-H-WED-PM1, A7-I-P-TUE-P1-6, | Skryabina, Natalia | A7-0-THU-AM2 |
| Shin, DaeHoon | C7-0-TUE-PM2 | Simeonidis, Konstantinos | A2-P-THU-P2-9, | Skszek, Tim | B2-0-M0N-AM2 |
| Shin, Gyeong Su | B3-0-WED-PM1 | | D2-O-MON-AM2 | Skubisz, Piotr | B10-P-TUE-P1-13 |
| Shin, Gyeong Su | B8-P-THU-P2-8 | Simescu-Lazar, Florica | A1-P-THU-P2-4 | Skumryev, Vassil | A8-O-MON-PM1 |
| SHIN, Jae Hong | C7-O-TUE-PM2 | Simison, Silvia | B10-O-WED-AM2, B10-O-TUE-PM2 | Skvortsova, Zoya | C5-P-THU-P2-13, C5-O-FRI-PM1 |
| Shinozuka, Kei | C8-O-FRI-PM1, C8-P-THU-P2-9 | Simões, Sonia | B6-P-TUE-P1-2 | Slaoui, Abdelilah | E3-0-TUE-PM2 |
| Shiozawa, Daiki | D1-0-THU-PM1 | | C6-O-MON-PM1, | Slejko, Emanuele Alberto | A5-0-WED-PM1 |
| | B5-P-TUE-P1-18 | Simões, Sónia | A1-0-FRI-AM2 | Stejko, Elilalidete Alberto | D9-0-TUE-PM1, |
| Shipilov , Alexander Shirshnev, Pavel | A7-0-THU-PM2 | Simon, Christian | E3-P-TUE-P1-7, | Slugen, Vladimir | E4-P-THU-P2-4 |
| Shishatskiy , Sergey | A9-0-THU-PM2 | | A7-II-P-THU-P2-23 | Sluiter, Marcel | B3-0-M0N-PM2 |
| Shojaei, Kambiz | C10-P-THU-P2-9 | Simon, George | C4-P-THU-P2-12 | Sluiter, Marcel H.F. | D8-P-TUE-P1-4 |
| Shojima, Arata | B1-P-THU-P2-13 | Simon, Marina | A5-H-WED-AM2, F3-O-THU-AM2 | | B11-0-TUE-AM2, |
| Shorokhov, Alexander | B5-0-MON-PM2 | Simon, Nicolas | A7-II-P-THU-P2-5 | Smaga, Marek | B11-O-MON-PM1, B9-O-THU-PM2 |
| Shorokhov, Evgeniy | B4-0-THU-PM1 | Simon, Patrick | D9-O-WED-PM2 | | D2-P-TUE-P1-2, |
| | A7-O-WED-PM2 | Simondon, Esther | B1-0-THU-AM2 | Smalc-Koziorowska, Julita | D2-O-WED-PM1, |
| Shtansky , Dmitry | C1-O-THU-AM2, | Simonov, Yaroslav | C5-P-THU-P2-13 | omate noziorowska, Juilla | D2-P-TUE-P1-6, |
| Shtansky, Dmitry | A8-O-TUE-AM2 | Simon-Vazquez, Rosana | F3-0-THU-PM1 | Smeacetto, Federico | D2-H-TUE-PM1 E1-P-TUE-P1-6 |
| Shtil, Alexander | F2-P-THU-P2-8 | Šímová, Veronika | C1-O-TUE-PM2 | Smid , Miroslav | B11-0-M0N-PM2 |
| Shu, Da | C6-P-TUE-P1-10 | • | H1-H-MON-PM2, | • | B1-0-TUE-AM2, |
| | B2-O-WED-PM2 | Sims, Zachary | H1-P-TUE-P1-2 | Smid, Miroslav | D4-O-MON-PM2 |
| Shuai, Sansan | | Simsek, Emrah | H1-O-TUE-PM1 | Smilauerova, Jana | B2-0-THU-PM1 |
| Shuai, Sansan Shukla, Vineeta | A1-P-THU-P2-9 | | | | |
| | A1-P-THU-P2-9 A5-P-TUE-P1-8 | Simsek, Emrah | H1-H-MON-PM1 | Šmilauerová, Jana | B4-0-THU-AM2 |
| Shukla, Vineeta | | Simsek, Emrah Simsek, Gorkem | H1-H-MON-PM1 B11-P-TUE-P1-7 | Šmilauerová, Jana Smilgies, Detlef | B4-O-THU-AM2 D1-P-TUE-P1-14 |
| Shukla, Vineeta Shupik, Ivan | A5-P-TUE-P1-8 | | | | |
| Shukla, Vineeta Shupik, Ivan Shvab, Ruslan | A5-P-TUE-P1-8 C4-0-FRI-PM1 | Simsek, Gorkem | B11-P-TUE-P1-7 | Smilgies, Detlef | D1-P-TUE-P1-14 |

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| Smirnov, Vladimir | F1-P-TUE-P1-8 | | C6-O-MON-PM2, | | C1-O-THU-PM1, |
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| Smirnov, Vladimir | F4-P-TUE-P1-2 | | C6-O-TUE-PM1, | Spilarewicz-Stanek, Kaja | C1-O-TUE-PM2, |
| Smith, Barton | A7-O-WED-AM2 | Sommitsch, Christof | C6-O-TUE-AM2, C7-O-TUE-PM2, | | C1-II-P-THU-P2-15, C1-II-P-THU-P2-17 |
| Smith, Ryan | D1-P-TUE-P1-21 | | C2-O-TUE-PM1, | Spindler, Helmut | B1-0-THU-PM1 |
| Smolders, Simon | B7-0-FRI-AM2 | Common Object (| E6-0-THU-PM1 | Spirit, Zbynek | D9-P-TUE-P1-10, |
| | B10-0-M0N-AM2, | Somsen, Christof | B3-0-MON-AM2 | эрип, групек | D9-O-MON-PM1 |
| Cmural, Basta | A1-0-FRI-AM2, | Son, Seong Ho | C1-II-P-THU-P2-4, C9-P-THU-P2-6 | Špirit, Zbyněk | B11-O-WED-PM1, B11-O-WED-PM1 |
| Smyrak, Beata | B11-0-TUE-PM2, F5-0-FRI-AM2, C1- | Sonderegger, Bernhard | D5-O-FRI-AM2 | Spitaler, Jürgen | D8-O-THU-PM1 |
| | II-P-THU-P2-1 | Sones, Collin | C2-O-MON-PM2 | SPITZER, Denis | C3-O-THU-PM2 |
| Smyrnaios, Emmanouil | D3-O-WED-PM2 | Song, Jeong-Hwan | D2-O-TUE-PM2 | | D5-O-THU-PM1, |
| Smyrnaios, Emmanouil | F1-0-TUE-AM2 | Song, Sung-Hyuk | C9-O-THU-PM2 | Springer, Hauke | B10-0-WED-PM1 |
| Smyth, Neil | A5-0-M0N-PM2 | Song, Wenwen | B1-0-TUE-AM2 | | F6-O-FRI-AM2, |
| Snyders, Rony | A1-0-FRI-PM1 | Song, Youngnam | B9-P-THU-P2-1 | Sprio, Simone | F5-H-FRI-AM2, F5-P-THU-P2-1 |
| Snyders, Rony | A1-0-FRI-PM1 | Soni, Purvesh | E3-P-TUE-P1-10 | Spyridopoulou, Katerina | A2-P-THU-P2-2 |
| | B8-0-THU-PM2, | Soni, Rohit | D1-O-TUE-PM1 | Spyrou, Kostantinos | E2-P-TUE-P1-8 |
| Soare, Vasile | B8-P-THU-P2-4, B8-P-THU-P2-5, | · | H3-O-MON-PM1, | Spyrou, Leonidas A. | B10-0-M0N-PM1 |
| | H2-P-TUE-P1-5, | Sonnemann, Guido | C11-0-FRI-AM2, | Srdic, Vladimir | C11-P-THU-P2-14 |
| | B6-P-TUE-P1-20 | | H3-0-M0N-AM2, H3-0-M0N-AM2 | Srdic, Vadimir | A5-P-TUE-P1-2 |
| Soare, Victoria | B8-P-THU-P2-4, H2-P-TUE-P1-5 | Sonnleitner, Markus | B1-0-THU-PM1 | Sridhar, Seetharaman | C8-O-FRI-PM1 |
| Soares, Delfim | C5-P-THU-P2-8 | Sorensen, Dan | D4-0-WED-PM1 | Situlial, Seetilal alliali | E4-0-WED-PM1., |
| Soares, Eduardo | B10-0-WED-PM1 | Soria, Héctor | F2-O-WED-PM1 | Sridharan, Kumar | H1-O-MON-PM2 |
| Soares, Rui | C4-P-THU-P2-9 | Sorogka, Niki | D3-P-THU-P2-4 | Sridharan, Niyanth | B10-0-WED-PM2 |
| Soares, Tiago | A6-0-THU-PM2 | Sorokin, Lev | D2-0-WED-PM2 | SRIVASTAVA, SANJEEV KUMAR | A1-P-THU-P2-9 |
| - | A7-H-MON-PM2 | Sorsa, Olli | E1-I/K-TUE-PM1 | SRIVASTAVA, SUNEEL KUMAR | A1-P-THU-P2-9 |
| Sob, M. | | Sursa, otti | C1-O-THU-PM1, | Stahr, Johannes | C9-O-THU-PM1 |
| Sob, Mojmir | D8-O-FRI-AM2, D8-O-WED-AM2 | Sort, Jordi | F4-0-MON-PM2, | Staiti, Pietro | E2-0-TUE-PM2 |
| Šob, Mojmír | D8-O-THU-PM1 | | C3-P-THU-P2-13 | Stamatakis , Kostas | C1-O-THU-AM2 |
| Sobczak , Natalia | C5-I/K-THU-PM2 | Sosa, Amadeo | B10-0-TUE-PM2 | Stamatelatos, A. | A2-P-THU-P2-4 |
| Sobczak, Natalia | C6-P-TUE-P1-8 | Sotillo, Belén | A7-0-FRI-AM2 | Stamatis, Haralambos | A3-0-M0N-PM2 |
| Sobel, Bartlomiej | D2-O-WED-PM2 | Sotiriadis, George | B6-O-TUE-PM2, | Stambouli, Valérie | A7-H-THU-PM1 |
| Sobierajski, Ryszard | D1-P-TUE-P1-8 | | B6-0-TUE-PM1 | Stan, Iulian | C8-P-THU-P2-1 |
| Sobol, V. | E3-P-TUE-P1-16 | Soulantica, Katerina | A5-H-TUE-AM2 | Stan, Stelian | C8-P-THU-P2-1 |
| Sobrinho, José Francisco Reis | C1-II-P-THU-P2-3 | Soulé, Samantha | F3-O-THU-AM2 | Stana, Markus | D1-P-TUE-P1-28 |
| Socha, Robert | A1-O-FRI-AM2 | Souliou, S.M. | D3-P-THU-P2-3 | Stancu, Alexanru | A2-H-THU-PM1 |
| Socol, Gabriel | A7-II-P-THU-P2-3 | Souliou, Sofia Michaela | D1-0-THU-PM2 | Stancu, Nicolae | B8-0-WED-PM2 |
| Söderberg, Hans | C4-O-THU-AM2 | Souliou, Sofia-Michaela | D3-H-WED-AM2 | · | E3-0-MON-AM2, |
| _ | H1-O-TUE-PM2, | Soumelidou, Maria | D2-P-TUE-P1-13 | Stange, Marit | E3-O-TUE-PM2 |
| Söderlind, Per | H1-H-TUE-PM2 | Sourice, Julien | E2-0-MON-PM2 | Stangier, Dominic | C1-O-MON-PM1 |
| Sofinowski, Karl | B2-0-WED-PM2 | Sourmail, Thomas | B1-P-THU-P2-5 | Stanojev, Jovana | C11-P-THU-P2-14 |
| Sohn, Il | C6-O-TUE-AM2 | Sourmail, Thomas | B11-0-M0N-AM2 | Stanojevic, Aleksandar | B3-P-TUE-P1-4 |
| Soisson, Frédéric | D8-O-WED-PM1, | Sournia-Saquet, Alix | A5-O-TUE-PM1 | Starink, Marco | C10-0-WED-AM2 |
| | D9-P-TUE-P1-9 | Sousa, Francisco | B6-P-TUE-P1-10, B11-P-TUE-P1-8 | Stark, Andreas | D1-O-THU-PM1, |
| Sojak, Stanislav | E4-P-THU-P2-4 | Sousa, Pedro | B6-P-TUE-P1-13 | Stark, Andreas | C4-P-THU-P2-15 |
| Sokolovskiy, Vladimir | D8-P-TUE-P1-7, D8-O-FRI-AM2 | Souza, Douglas Fernandes | A9-P-THU-P2-3 | Stark, Tobias | C2-O-TUE-AM2 |
| Sokolowski-Tinten, Klaus | D1-P-TUE-P1-8 | | F6-P-THU-P2-1, | Starost, Kristof | E6-0-FRI-AM2 |
| · | C2-O-MON-PM2, | Souza, Júlio | F1-0-TUE-PM2 | Stary, Vladimir | F1-P-TUE-P1-6 |
| Sola, Daniel | A7-II-P-THU-P2-16 | Souza, Júlio CM | F4-0-M0N-PM1 | Stasiak, Tomasz | B8-P-THU-P2-6 |
| Solan, Sébastien | E2-P-TUE-P1-17 | Söyler, A. Umut | B5-0-M0N-PM2 | Stathokostopoulos, Dimitrios | E3-P-TUE-P1-13 |
| Soldatov, Alexander V. | B7-0-FRI-AM2 | Spadaro, Maria Chiara | D1-P-TUE-P1-17 | Stathopoulos, Spyros | C11-O-THU-PM1 |
| Soldera, Flavio | XXX, | Spampinato, Nicoletta | A3-0-TUE-AM2 | Staudt, Thorsten | B1-O-TUE-PM2 |
| | B10-0-TUE-PM2 | Spanos, Konstantinos | B10-0-M0N-PM1 | | D4-O-WED-PM1, |
| Soleimani-Dorcheh, Ali | B3-0-THU-AM2, E3-P-TUE-P1-25 | Spanos, Michael | C11-P-THU-P2-4 | Stauffer, Douglas | B10-O-TUE-AM2, B11-P-TUE-P1-17, |
| Soler, Michel | B1-H-TUE-PM2 | Spasova, Marina | A2-P-THU-P2-10 | | B5-P-TUE-P1-24 |
| | B10-O-WED-PM1, | Spatschek, Robert | D5-O-FRI-PM1, | Stavrinadis, Alexandros | D1-P-TUE-P1-25 |
| Solioz, Marc | F5-P-THU-P2-2 | Sparscriek, Robert | B1-O-FRI-AM2 | Stavrinidis, Antonis | C11-O-THU-PM2 |
| | C2-O-MON-PM1, | Specht, Eliot D. | D8-O-THU-AM2 | Stavrinou, Paul N. | A3-O-MON-PM2 |
| Solis, Javier | F6-O-FRI-PM1, A7-O-FRI-AM2, | Speck, Florian | C1-O-WED-PM1 | Stavropoulos, Panagiotis | B11-P-TUE-P1-11 |
| | A7-0-FRI-AM2 | Speliotis, Thanassis | A3-0-TUE-AM2 | Stavropoulos, Sotirios | A3-O-TUE-AM2, |
| Solokhin, Alexandr | F1-P-TUE-P1-8 | Speltini, Andrea | E1-P-TUE-P1-4 | | A1-H-FRI-AM2 |
| Solórzano, Rubén | F3-0-WED-PM2 | Speranza, Giorgio | E1-P-TUE-P1-8 | Stavropoulos, SOTIRIS . G. | A3-P-TUE-P1-22 |
| Solovev, Mikhail | B3-O-WED-PM1 | Spezia, Riccardo | E2-0-MON-PM1 | Steadman, Paul | A8-O-MON-PM1 |
| Solsona, Pau | F4-0-MON-PM2, | Speziale, Sergio | D3-O-WED-PM2 | Stechmann, Guillaume | E3-0-MON-AM2 |
| | C3-P-THU-P2-13 | Spieckermann, Florian | B11-0-TUE-PM1, | Steciuk, Gwladys | D2-O-TUE-AM2 |
| Soltanmohammad, S. | D1-P-TUE-P1-27 | | B9-0-THU-AM2 | Steckmeyer, Antonin | B3-0-M0N-PM2 |
| Somani, Mahesh | B1-H-WED-PM2 | Spierings, Adriaan B. | C4-0-FRI-AM2 | Steeb, Hoger | D10-O-THU-PM2 |
| Somekawa, Hidetoshi | B2-O-TUE-PM1 | Spies, Jacob | F6-O-FRI-PM1 | Steeb, Holger | D5-O-THU-PM1 |
| Somers, Joseph | D9-O-MON-AM2 | Spiewak, Piotr | D10-II-P-THU-P2-5 | Stefan, Mariana | A5-O-TUE-PM1 |
| Sommer, Britt | A7-II-P-THU-P2-23 | Spigarelli, Stefano | C6-I/K-MON-AM2 | Stefanaki, E.C | E3-P-TUE-P1-18 |
| | | | | Stefanidou, Maria | B5-O-TUE-PM1 |
| | | | | Steffens, Paul | H1-O-TUE-PM1 |

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| Steffens, Thomas | D1-P-TUE-P1-10 | | B2-P-TUE-P1-9, | Suresh, Krishnan | C4-O-THU-PM2 |
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| Stegemann, Karl-Heinz | C11-H-THU-AM2 | Stráský, Josef | B4-O-THU-AM2, B4-P-THU-P2-4, | Suriñach, Santiago | F4-0-M0N-PM2, |
| Stehlík, Karin | E1-P-TUE-P1-5 | | C3-P-THU-P2-11 | Curawaka Parhara | C3-P-THU-P2-13 B6-P-TUE-P1-16 |
| Steidl, Gabriele | B11-O-TUE-AM2 | Stratakis , Emmanuel | A5-P-TUE-P1-15 | Surowska, Barbara | C1-O-WED-PM2, |
| Steil, Marlu César | A9-0-FRI-PM1 | Stratakis, Emmanuel | C2-O-MON-PM1, C2-O-MON-PM1 | Surrey, Elizabeth | C4-0-THU-AM2 |
| STEIN, Nicolas | C1-O-THU-PM2 | Stratakis, Emmanuel | F6-0-FRI-PM1 | Susi, Toma | A1-0-FRI-PM1 |
| | D10-I/K-WED-AM2, D10-O-THU-AM2, | Straticiuc, Mihai | B8-O-WED-PM2 | Suter , Thomas | F4-0-M0N-PM1 |
| Steinbach, Ingo | D5-I/K-THU-PM1, | Stratmann, Inga | A9-O-FRI-AM2 | Sutmann, Godehard | D10-H-FRI-AM2 |
| | B11-O-MON-PM1, D5-O-FRI-PM1 | Stratmann, Matthias | B8-O-WED-PM1 | Suto, Yamato | C10-O-THU-PM1 |
| Steinbach, Ingo | B8-0-WED-PM1 | Straumal, Alexander | C5-P-THU-P2-7 | Sutou, Yuji | B2-O-THU-AM2, B2-O-THU-AM2 |
| Steinhauser, Monika | E6-O-THU-PM2 | Straumal, B.B. | C10-H-THU-AM2 | | E3-0-WED-PM2, |
| Steinman, Alexander | A7-0-WED-PM2 | | C10-H-THU-PM1, | Sutter, Florian | E3-0-WED-PM2 |
| Šteins, Ints | B5-P-TUE-P1-4 | | C10-H-THU-AM2, | Suwas, Satyam | C10-H-WED-PM1 |
| Stelitano, Sara | A1-P-THU-P2-11 | Charact Davis | C5-I/K-FRI-PM1, C5-P-THU-P2-5, | Suzuki, Akira | E1-0-TUE-AM2 |
| Stongol Maccimiliano | A8-H-MON-PM1, | Straumal, Boris | C5-P-THU-P2-6, | Suzuki, Takuya | B2-P-TUE-P1-5 |
| Stengel, Massimiliano | A8-O-MON-PM1 | | C5-P-THU-P2-7, C5-P-THU-P2-10, | SUZUKI, Takuya | B2-P-TUE-P1-6 |
| Stepanov, Nikita | C10-I/K-WED-PM1, C10-H-WED-PM2 | | C5-P-THU-P2-11 | Svelle, Stian | B7-0-FRI-AM2 |
| Stephan, Christiane | E3-P-TUE-P1-6 | Straumal, Petr | C10-H-THU-PM1 | Svensson, Ann Mari | E2-O-MON-PM2 |
| Stephen, Samuel | A5-0-WED-AM2 | Strauss, Mark | H2-O-TUE-AM2 | Svensson, B. G. | D2-P-TUE-P1-29 |
| Stephen, Samuel | A7-II-P-THU-P2-18 | Streckova, Magdalena | B6-P-TUE-P1-25, A1-P-THU-P2-10 | Svensson, B.G. | E3-H-WED-PM1 |
| | D9-0-TUE-AM2, | Strempfer, Jörg | A8-0-M0N-PM1 | Svensson, Bengt | E3-O-MON-PM2, E3-O-WED-PM1 |
| Stergar, Erich | E4-0-WED-PM1 | Strobel, Verena | A6-O-THU-PM2 | 0.1. 0.1 | B5-0-TUE-AM2, |
| Stergiou, Giorgos | F3-P-THU-P2-4 | Stroev, Andrey | D8-O-THU-PM2 | Svinka, Ruta | B5-P-TUE-P1-12 |
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| Stergioudi, Fani | F1-0-TUE-AM2, | Strojny-Nędza, Agata | B6-P-TUE-P1-4, | | B5-P-TUE-P1-12 |
| • | D3-O-WED-PM2 | | B6-P-TUE-P1-5 | Svoboda, Ondrej | D8-O-WED-AM2 |
| Ctariatic Thandara | C9-P-THU-P2-8 | Strozyk, Malte | F3-0-THU-PM1 | Swain, Michael | D2-H-THU-PM1 B1-H-THU-PM2 |
| Steriotis, Theodore | F1-0-TUE-PM2 F2-P-THU-P2-6, | Strunz, Pavel | B3-0-TUE-PM1 | Sweeney, Francis | B1-0-WED-PM1 |
| Steriotis, Theodore | E2-P-TUE-P1-8 | Strusch, Tanja | A7-0-WED-PM2 | Swiatnicki, Wieslaw Syassen, K. | D3-P-THU-P2-3 |
| Steriotis, Theodore | A3-P-TUE-P1-11, | Struzzi, Claudia | A1-O-FRI-PM1, A1-O-FRI-PM1 | Sychev, Alexander | C7-O-TUE-PM2 |
| | F1-0-TUE-PM1 | Stubenrauch, Martin | A6-O-FRI-PM1 | Sygletou, M. | A5-P-TUE-P1-15 |
| Sternlicht, Hadas | D2-I/K-MON-AM2 | Stuckelberger, M. | D1-P-TUE-P1-27 | Sygtetou, M. | E3-0-WED-AM2, |
| Steunou, Nathalie | B7-0-THU-PM2, B7-P-THU-P23 | Stuetz, Markus | C6-O-TUE-AM2 | Symeou, Elli | E3-P-TUE-P1-4, |
| Ctovene Melly | F1-0-M0N-PM2, | Stumpf, Florian | C11-O-THU-AM2 | | E3-P-TUE-P1-14 |
| Stevens, Molly | F1-0-M0N-PM2 | Stumpf, Martin | B5-O-TUE-AM2 | Sypien, Anna | C6-O-MON-PM1, C6-P-TUE-P1-1, |
| Stevick, Joseph | D4-0-WED-PM1 | Stupkiewicz, Stanisław | D4-H-TUE-PM1 | - M - 1 | B8-O-WED-PM2 |
| Steyskal, Eva-Maria | A7-0-M0N-PM2, A7-I-P-TUE-P1-21 | Sturini, Michela | E1-P-TUE-P1-4 | Syrrokostas, George | E3-P-TUE-P1-23 |
| Stiefel, Michael | A7-0-THU-PM2 | 0, 11. | A9-P-THU-P2-1, | Syskakis, Emmanuel | A8-P-TUE-P1-2, A8-P-TUE-P1-3 |
| Stiewe, Christian | E3-H-TUE-PM1 | Sturm, Heinz | D2-P-TUE-P1-11, D2-O-THU-PM1 | Syskakis, Emmanuel | A8-P-TUE-P1-1 |
| Stijepovic, Ivan | A5-P-TUE-P1-2 | | A2-O-WED-PM1, | Syväjärvi, Mikael | E3-0-WED-PM1 |
| Stimoniaris, Adam | A3-P-TUE-P1-19 | Sturm, Saso | H2-P-TUE-P1-3, | | E3-0-TUE-PM2, |
| Stitt, Camilla | E4-0-THU-AM2 | Stürzenbaum, Stephen | D2-H-MON-PM2 F2-O-WED-AM2 | Syvertsen, Martin | E3-0-TUE-PM2 |
| Stocks, Malcolm | D8-O-THU-AM2 | Stygar, Mirosław | B3-O-THU-AM2 | Syverud, Kristin | F1-0-MON-AM2 |
| Stoemenos, John | D2-P-TUE-P1-16, | Su, Mengmeng | C8-O-THU-AM2 | Szakalos, Peter | D9-O-MON-PM1 |
| Stoemenos, John | C11-O-THU-PM1 | Suarez, Sebastian | C10-P-THU-P2-2 | Szczerba, Maciej | C5-O-FRI-PM1 |
| Stoica, Mihai | B9-H-THU-PM1, B9-H-THU-PM2 | Subhedar, Amol | D10-0-THU-AM2 | Szymanowski, Hieronim | F1-P-TUE-P1-2 |
| Stoiciu, Florentin | B8-P-THU-P2-5 | Subías, Gloria | D1-0-TUE-PM1 | Szymański, Łukasz | C8-O-THU-PM2 |
| Stojanović, Dušanka | C3-P-THU-P2-10 | Sublet, Jean-Christophe | E4-0-TUE-PM2 | Szyniszewski, Stefan | E6-0-FRI-AM2 |
| Stojanovic, Goran | C11-P-THU-P2-14 | Subramanyam, Aparna | D8-0-FRI-AM2 | T | |
| Stokkan, Gaute | E3-0-TUE-PM2 | SUDOU, Takeshi | B2-P-TUE-P1-7 | Tabachnikova, Elena | B4-O-THU-PM2, B8-P-THU-P2-13 |
| Stokkan, Therese | E3-H-TUE-PM2 | | A6-O-THU-PM2, | Tabarant, Michel | C2-O-TUE-AM2 |
| Ctalbay Valariy | D4-O-TUE-PM2, | Suess, Manuela | C1-II-P-THU-P2-5 | Taber, Geoff | B2-0-THU-PM2 |
| Stolbov, Valeriy | D4-P-TUE-P2-11 | Suhonen, Heikki | D1-O-WED-AM2 | label, dedil | F4-P-TUE-P1-4, |
| Stoleriu, Laurentiu | A2-H-THU-PM1 | Sukhorukova , Irina | A7-O-WED-PM2 | Tadier, Solène | F5-O-FRI-AM2, |
| Stoltz, Gabriel | D10-H-THU-AM2 | Sukhorukova, Irina | C1-O-THU-AM2 | | F1-0-TUE-PM2 |
| | B8-O-WED-PM2, B3-O-TUE-AM2, | Sumer, Zeynep | B7-0-THU-PM2 | Taeño, María | A7-II-P-THU-P2-4 |
| Stone, Howard | B3-0-WED-AM2, | Sun, Che-Nan | E2-I/K-TUE-AM2 | Tagiara, NagiaS. | B5-P-TUE-P1-8 |
| | B8-O-WED-AM2, | Sun, Jianwu | E3-O-WED-PM1 | Taillard, Roland | C6-O-TUE-AM2 |
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| Stone, Howard J | B8-0-WED-PM1 | Sun, Xin | D6-O-FRI-PM1 | Takahara, Atsushi | D1-O-TUE-PM2 |
| Stone, lan | C6-O-MON-PM1 | Sun, Yueting | B7-O-FRI-PM1 | Takahashi, Satoru | C1-O-TUE-PM2 |
| Storck, Steven | C4-O-FRI-PM1 | Sun, Zhen | D10-O-WED-PM1 | Takaiwa, Daisuke | A7-II-P-THU-P2-15 |
| Story, William | B10-0-TUE-PM2 | Sun, Zhi | H2-O-TUE-AM2, H2-P-TUE-P1-4 | | B11-O-TUE-PM1, B11-O-TUE-PM1, |
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| Stoschka, Michael | B10-O-MON-PM2 | Sunde, Tor Olav | F3-O-THF-PM2 | iakaki, Setsuo | |
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| Takeuchi, Yuta | B2-0-THU-AM2, | Tealdi, Cristina | E2-0-MON-AM2 | Thomas, Carsten | B8-0-THU-AM2 |
| | B2-0-THU-AM2 | Tebenkov, Alexander | B5-P-TUE-P1-15 | Thomas, Marc | C3-O-THU-PM1 |
| Talaat, Ahmed | H1-H-MON-PM1 | Tedzhetov , Valentin | C1-II-P-THU-P2-10 | Thomas, Matthew | D4-0-MON-PM1 |
| Talaga, David | E2-P-TUE-P1-9 | Tegeler, Marvin | C5-O-FRI-AM2, D5-O-FRI-PM1 | Thomas, Olivier | D1-O-WED-PM1 |
| Talebi, Seyyed Hesamodin | B1-0-WED-PM2 | Teijeiro, Carlos | D10-H-FRI-AM2 | Thomas, Yohann | E2-P-TUE-P1-17 |
| Talik, Michal | B11-0-TUE-PM2 | Teipel, Ulrich | F6-0-THU-PM2 | Thomassin, Jean-Michel | F6-0-FRI-AM2 |
| Talneau, Anne | D4-H-TUE-AM2, | Teisseire, Jérémie | A3-0-M0N-PM1 | Thomou, Eleni | E2-P-TUE-P1-8 |
| Talanana Daniani | D4-P-TUE-P2-1 | | | | B3-P-TUE-P1-8, |
| Talpeanu, Dorinel | B8-O-WED-PM2 | Teixeira, José | C5-P-THU-P2-8 | Thompson, Gregory B. | B10-0-TUE-PM2 |
| Tamamis, Phanourios | F6-O-FRI-PM1 | Teixeira, Senhorinha | C5-P-THU-P2-8 | Thomson, C.L. | F1-0-TUE-AM2 |
| Tamanoi, Fuyuhiko | F3-0-THU-AM2 | Tejado, E | XXXM | Thorel, Alain | C9-O-FRI-PM1 |
| Tamboura, Sahbi | D10-O-WED-PM2 | Tejado, Elena | E4-0-THU-AM2, XXXME4-P- | Thorenz, Andrea | H3-0-M0N-AM2 |
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| Tan, H. Hoe | E3-P-TUE-P1-12 | Terao, Natsuki | B1-P-THU-P2-14 | Tian, Jinsen | B3-O-WED-PM2 |
| Tan, Jin Chong | B7-0-FRI-PM1 | Tercero, Luis | H3-O-MON-AM2 | Tian, Jun-yu | B1-P-THU-P2-3 |
| | B7-0-THU-AM2, | Terent'ev, Vladimir | B4-H-THU-PM2 | Tian, Kun Viviana | D2-P-TUE-P1-17 |
| | B7-P-THU-P2-2, B7-O-WED-PM2, | Terlemez, Arslan | H2-O-TUE-PM1 | Tian, Tian | B7-0-THU-PM2, |
| | B7-0-THU-AM2, | | | T: 7b | C5-O-FRI-PM1 |
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| 3 | B7-O-THU-AM2, B7-H-WED-PM1, | Ternon, Céline | A7-H-THU-PM1 | Tiberto, Paola | A2-H-THU-PM1, C1-O-THU-PM1, |
| | B7-P-THU-P2-6, | Terranova, Umberto | D3-O-WED-PM2 | · | A8-O-MON-PM2 |
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| Tang, Chongchong | E4-P-THU-P2-3 | Took Andrew | F4-0-MON-PM2 | Tikhonovsky, Mikhail | B4-0-THU-PM2 |
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| Tang, Zhijiang | E2-I/K-TUE-AM2 | Tharakshmy, Anjana | A7-I-P-TUE-P1-16 | | B1-0-TUE-PM1, |
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| Tankov, Nicolas | B3-0-TUE-PM2 | Thäter, Markus | D5-H-FRI-AM2 | | B1-O-THU-PM2 C10-O-THU-AM2, |
| Tao , Quanzheng | A2-H-WED-PM2 | Thébaud, Louis | B3-0-WED-PM1 | Timokhina, Ilana | B4-0-FRI-AM2 |
| Tao, Andi | B7-H-WED-PM2 | Themistou, Efrosyni | A7-I-P-TUE-P1-17 | Timoshankov Corgov | B5-P-TUE-P1-3, |
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| Tarani, Evangelia | E3-P-TUE-P1-13 | Theodorakos, Ioannis | C2-O-MON-PM2 | Timoshenkov, Valeri | A1-P-THU-P2-2 |
| Tarantino, Gabriella | D5-O-FRI-PM1 | Theodorakos, Ioannis | C2-O-TUE-AM2 | Timusk, Thomas | D3-I/K-WED-AM2 |
| Tarantino, Mariano | E4-0-WED-PM1. | Theodoropoulou, A. | A5-P-TUE-P1-12 | Tingaud, David | B11-0-THU-PM1, |
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| TARFA, Taha Nabil | C2-O-TUE-PM1 | Theodorou, Doros | D10-H-THU-PM2, | Tioual-Demange, Sarah | B2-O-TUE-PM2 |
| Tas Kavakbasi, Bengü | D5-O-THU-PM1 | | D10-O-THU-PM2 | - | C8-P-THU-P2-13, |
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| Tasan, C. Cem | B11-0-TUE-PM2, | Thesberg, Mischa | E3-H-WED-AM2 | Tiseanu, Carmen | A7-I-P-TUE-P1-5 |
| Tasan, Cem | D4-H-WED-PM1, | Theska, F. | A7-H-MON-PM2 | Tiseanu, Ion | A7-I-P-TUE-P1-5, |
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| Tati, Angelo | D9-P-TUE-P1-6 | Thijs, Lore | A6-O-FRI-PM1 | Többens, Daniel M. | E3-O-WED-PM1, C11-P-THU-P2-13 |
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| Tavakkoli, Mohammad | E1-I/K-TUE-PM1 | Thoda, Olga | A7-I-P-TUE-P1-12 | Tobola, Janusz | B8-O-WED-AM2 |
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| Togashi, Yutaro | C1-I-P-TUE-P1-3 | Trinkle, Dallas | B2-O-MON-PM2 | Tsoukalas, Dimitris | C11-P-THU-P2-12 |
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| Tolde, Zdenek | F1-P-TUE-P1-6 | Trosch, Tanja | C8-O-THU-PM2 | Tsoutsou, Dimitra | C11-I/K-FRI-AM2 |
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| - | A3-P-TUE-P1-8, | Trushnikova, Anna | B3-0-M0N-PM2 | Tsuchiyama, Toshihiro | B11-0-TUE-PM1 |
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| Tomaselli, Massimiliano | C4-O-FRI-PM1 | | E2-P-TUE-P1-12 | Tsurtsumia, Olga | B3-P-TUE-P1-11 |
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| Tonda-Turo, Chiara | F2-O-WED-AM2 | | C11-O-THU-PM2, C11-O-THU-PM1, | Tsuzaki, Kaneaki | B1-P-THU-P2-12, |
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| Topping, Matthew | E4-0-WED-PM2 | Tsai, Shao-Pu | B1-P-THU-P2-3 | Tucker, Matthew G. | D3-O-WED-PM1 |
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| Vaclav, Paidar | D10-I-P-TUE-P1-1 | Van Der Voort, Pascal | B7-H-FRI-AM2 | Varga, Markus | B10-0-TUE-PM2, |
| Václavová, Kristína | B4-O-THU-AM2 | van der Zwaag, Srbrand | B3-0-WED-AM2 | • . | B10-0-WED-PM2 |
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| Vaes, Urbain | D10-0-THU-PM1 | | B1-O-TUE-PM2, B1-O-TUE-PM2 | Varnik, Fathollah | D10-0-THU-PM2 D5-0-THU-PM1, |
| Vafeidis, Anastasios | D4-P-TUE-P2-6 | Van Dijk, Nicholas | E1-H-TUE-PM1 | Varnik, Fathollah | D10-0-THU-AM2, |
| Vahidyeganeh, Ali | B11-P-TUE-P1-7 | ,, | D1-0-TUE-PM2, | | C5-O-FRI-AM2 |
| Vahlas, Constantin | C1-O-MON-PM2, D10-O-THU-PM1 | van Dijk, Niels | B1-0-FRI-PM1, | Varona Caballero, Arcadio | B3-O-TUE-PM1 |
| Vaidagswaran Kaushik | C4-O-WED-AM2, | | H1-H-TUE-PM1, B3-O-MON-PM2 | Varvaro, Gaspare | D2-O-WED-PM2 |
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| Vaidya, Amogh | C1-O-FRI-PM1 | van Harten, Elleke | A5-O-TUE-PM2 | Vasco, Marina | B10-0-TUE-PM1 |
| Vaithilingam , Balasubramanian | A5-0-TUE-AM2, A7- I-P-TUE-P1-16 | van Harten, Elleke | A5-O-WED-PM1 | Vasconcelos, Wander Luiz | A9-P-THU-P2-3 |
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| /iana, Filomena | C6-O-MON-PM1, |
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| Zhang, Zidan | D10-I-P-TUE-P1-9, D10-0-THU-PM1 |
| Zhao, Dan | B7-H-THU-PM2, A9-0-FRI-PM1 |
| Zhao, Haigen | B3-O-MON-PM1 |
| Zhao, He | A5-P-TUE-P1-14 |
| Zhao, Meng | E1-P-TUE-P1-7 |
| Zhao, Shixiang | D9-I/K-MON-PM2 |
| Zhao, Tingkai | A1-P-THU-P2-8 |
| ZHAO, Yajun | C10-O-WED-AM2 |
| Zhao, Zhang | B1-I/K-FRI-PM1 |
| Zheludkevich, Mikhail | C1-O-THU-PM2, B2-O-FRI-AM2 D9-O-TUE-PM1, |
| Zheng, Ce | D9-P-TUE-P1-20 F1-O-TUE-PM2, |
| Zheng, Kai | F1-P-TUE-P1-10, F1-O-TUE-PM1 |
| Zheng, Lei | C4-O-WED-PM1 |
| Zherebtsov, Sergey | C10-I/K-WED-PM1, C10-H-WED-PM2 |
| Zhigalina, Olga | C1-II-P-THU-P2-10 |
| Zhilyaev, Alexander | C10-H-WED-PM1 |
| Zhou, Gengheng | D2-O-WED-PM2 |
| Zhou, Jinming | C9-O-THU-AM2 |
| Zhou, Lin | H1-H-MON-PM1, H1-H-TUE-AM2 |
| Zhou, Ming-xing | B1-P-THU-P2-3 |
| Zhou, Wen-long | C6-O-MON-PM1 |
| Zhou, Xuyang | B3-P-TUE-P1-8 |
| Zhou, Yu | B5-P-TUE-P1-2, B5-O-TUE-AM2 |
| ZHU, Kangying | B11-0-WED-PM2 |
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| Zhulanov, Vladimir | D1-0-THU-AM2 |
| Zibrov, Mikhail | E4-P-THU-P2-13 C10-H-THU-PM1 |
| Zięba, Pawel Ziebert, Carlos | H1-I/K-MON-PM2 |
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| Zielbauer, Florian | B11-I/K-WED-AM2 |
| Zienert, Tilo | B5-O-TUE-PM1 |
| Zientara, Dariusz | B5-P-TUE-P1-10 |
| Zilio, Stefano | E2-P-TUE-P1-4 |
| Zimerska-Nowak, Patrycja | C6-P-TUE-P1-13 |
| ZIMMER, Alexandre | C1-O-THU-PM2 |
| Zimmermann, Anna | B1-O-TUE-PM2 |
| Zimmermann, Frank | C1-H-THU-PM2 |
| Zimmermann, Martina | B10-0-MON-PM2 |
| Zindal, Anuz | B2-0-TUE-PM1 |
| Zindel, J. W. | B2-0-MON-PM1 F3-0-THU-AM2 |
| Zink, Jeffrey I. Zinoviev, Aleksandr | D4-O-TUE-PM2, C4-O-WED-PM2 |
| Zinovieva, Olga | D4-O-TUE-PM2, C4-O-WED-PM2 |
| Ziobro, Grzogorz | B2-P-TUE-P1-19 |
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| Zisopoulou, Antonia | A1-P-THU-P2-7 |
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| Zizak, Ivo | D1-O-FRI-PM1, |
| · | F6-O-THU-PM1 |
| Zlatičanin, Biljana | B2-P-TUE-P1-13 |

| Zoch, Hans-Werner | E6-O-FRI-PM1, E6-P-THU-P2-2, E6-P-THU-P2-5, E6-O-THU-AM2 |
|------------------------|---|
| Zólyomi, Viktor | D10-0-FRI-PM1 |
| Zontone, Federico | D1-O-FRI-AM2 |
| Zormpa, Elpida | D2-P-TUE-P1-3 |
| Zorzetto, Laura | F6-O-FRI-AM2, F4-O-MON-PM2, D4-O-TUE-AM2 |
| Zouboulis, Ilias | D3-O-THU-AM2 |
| Zouridi, Leila | C1-O-WED-AM2 |
| Zschech, Ehrenfried | A7-0-WED-AM2 |
| Zuelli, Nicola | B11-0-THU-AM2 |
| Zuma, Bridget | B1-O-WED-AM2 |
| Zupan, Marc | B11-O-THU-AM2, D4-O-MON-PM2, C4-O-FRI-PM1 |
| Zuriaga, Elena | A9-H-FRI-AM2 |
| Zuzek Rozman, Kristina | A2-O-WED-PM1, H2-P-TUE-P1-3 |
| Zuzjakova, Sarka | C1-I-P-TUE-P1-12 |
| Zuzjaková, Šárka | C1-O-TUE-PM2 |
| | |

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F6-0-THU-PM1

Zlotoyabko, Emil







The Federation of European Materials Societies

Networking for European Materials Scientists and Engineers

What is FEMS?

In June 1986, the Institute of Metals in London (IOM), the German Society for Metals (DGM) and the French Society for Metallurgy (SFM) agreed the need for European metals and materials societies to act more in concert and behave in a generally more "European" manner.

Following a few meetings, a memorandum of understanding to form the Federation of European Materials Societies was signed in January 1987.

The first FEMS General Assembly took place in Paris on 11 December 1987, with IOM, SFM and DGM as the three founder members. In the years that followed, membership of FEMS increased steadily, and by 1993 there were fourteen full members in thirteen different countries.

Today FEMS is a not-for-profit association of 27 European materials societies and associations representing in excess of 25,000 materials professionals, covering science and engineering in various fields including metals, polymers, ceramics, composites, glasses, nano, natural and biomaterials.

The aims of the association are to:

- Promote the wide dissemination of scientific, technical and other knowledge relating to materials notably through its conference series (EUROMAT & Junior EUROMAT).
- Facilitate the communication and exchange of information between its members.
- Coordinate the activities of member societies in order to make optimum use of resources.
- Ensure optimum visibility of materials science and engineering in governmental and non-governmental organisations, in the economy and in the academic environment.
- Contribute to developing links and collaboration between RTOs and industry

FEMS is an active member in several European projects & networking activities devoted to the promotion of actions in the field of Materials Science and Engineering, such as CSA Projects under FP7 and HORIZON2020 like MATVAL and MATCH, EUREKA Projects like Metallurgy Europe, and Networks like Alliance for Materials A4M, EUMAT, and EMIRI and Education programmes like the ERASMUS MUNDUS Programme.

Individual members of FEMS' member societies as shown on the map are entitled to a range of benefits which are listed on the following page.

Further information on FEMS, medals, events and activities can be found on the association's website.

www.FEMS.org

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As a MEMBER of your National Society (and if they are a member of FEMS), you will receive the following benefits:

- As a member you would be entitled to the member registration fee (of the national society) at 'FEMS endorsed events' which can include conferences and workshops (where you see the FEMS logo on event promotional materials and also advertised via the FEMS website)
- Reduced rates (15% or member rate offered by the organising society) to EUROMAT
- Reduced rates (15% or member rate offered by the organising society) to Junior EUROMAT
- Preferential rates to Taylor & Francis publications and books and CRC publications (25% discount using special code available from your National Society)
- Membership and access to a vast European network of over 20,000 materials professionals
- Receive copies of the FEMS newsletter

- You can be nominated for FEMS awards by your National Society (subject to meeting the relevant criteria)
- Opportunities to network with materials professionals at FEMS events
- Access to FEMS conference proceedings via secure area of FEMS website and other Knowledge Exchange Materials
- FEMS has developed valuable links to the European Commission and to important European Technology Platforms being a member of the Alliance for Materials (A4M). As a member of your National Society you will shape the future of materials R&D and by this actively contribute to the societal challenges in Europe.

If you are unsure whether your national society is a member of FEMS please check our website for further information.



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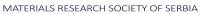


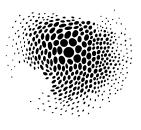




















Lithuanian Materials Research Society

Slovenian Society for Materials

Society for New Materials and Technologies in Slovakia

www.FEMS.org

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Hellenic Metallurgical Society (HMS)



The Hellenic Metallurgical Society (HMS) was established in year 2000 by partners coming from Academia and Industry. Since then, various National and International Conferences and Workshops have been organized and sponsored. The mission of HMS is to promote science and engineering in the context of metallic materials and metallurgy. HMS accommodates the long tradition in Greece in metals' production and processing, as well as the excellence of the conducted research in the highly-ranked Universities and Research Centers. The objectives of HMS include:

- The advancement of science and technology in metallic materials and metallurgy.
- Offering the field for constructive cooperation between scientists, academicians, researchers, engineers and industrialists.
- The exchange and dissemination of knowledge, by organizing or sponsoring related conferences, workshops and seminars.
- The contribution to the improvement of Greek education in the area of interest.
- The representation of the Greek metallurgical (scientific and engineering) community in relevant international societies, like FEMS.
- The support of young scientists by offering scholarships and opportunities to join Materials Science and Engineering conferences.

Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM)



The Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM) is a non-profit Greek Scientific Society, established in 1981. The Society's vision is to be a catalyst for scientific and technological excellence in the fields of Condensed Matter and Materials Science in Greece. HSSTCM aims at promoting the exchange of new developments and achievements in Condensed Matter and Materials Science and supporting their applications. It serves the corresponding Hellenic communities with vigour and responsibility, in Greece and globally, and brings together Greek research groups, which perform research on Condensed Matter and Materials Science, with research groups abroad. The Society's activities include the organisation of seminars, conferences, lectures, and workshops; newsletters with events, news, and other information; awards to young researchers, and any other activity which supports the communities of Condensed Matter and Materials Science.

We cordially thank our volunteers for their valuable contribution to the success of EUROMAT 2017

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Anton Paar TriTec SA develops, manufactures and sells instruments to characterize mechanical properties of surfaces. The company has been a global leader in this market for more than 30 years under the name CSM Instruments SA. Anton Paar GmbH has acquired CSM Instruments SA in November 15, 2013. The company develops the following types of instruments:

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The "Entwicklungsfonds Seltene Metalle" (ESM Foundation) is a Swiss non-profit organization founded in 1951. It is dedicated to support research and development activities in the field of Rare and Critical Elements, with a focus on their industrial applications. In pursuit of this goal, the Foundation sponsors and organizes conferences and workshops, publishes studies and surveys, coordinates projects in the field of Rare and Critical Elements, and confers scholarships and educational grants in areas relevant to the Foundation's topical focus.

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Thermo Fisher Scientific (formerly FEI)

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Thermo Fisher Scientific (formerly FEI)

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Granta Design Stand 27

Granta Design supports thousands of university educators worldwide as they teach materials, processes, and sustainability to the next generation of engineers and scientists. Our software and teaching resources are used at more than 1,000 universities and colleges worldwide. Granta also helps to organize the Materials Education Symposia, global events for materials educators where they can share ideas, tools, and best practice. The FEMS 30th Anniversary Education Tutorial with Granta Design will focus on the visual and interactive materials teaching resources developed by Professor Mike Ashby and Granta. It will demonstrate CES EduPack and its visual tools for materials science, design, and engineering, and it will give participants hands-on experience. As the materials intelligence experts, Granta helps hundreds of leading engineering enterprises to manage information on the materials that are essential to their businesses, enabling them to make better materials decisions.



HALCOR S.A., Metal Works

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ICE Publishing

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ICE Publishing Stand 25

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JEOL(EUROPE)SAS Stand 07

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LARCO GMM SA

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LARCO GMM SA

LARCO is a leading mining and metallurgical Company exploiting nickeliferrous ore mines and lignite mines in Greece, operating continuously since 1963.

The main field of its activities is the extraction of approximately 18.000–20.000 tons of Ni per year in the form of ferronickel granules (FeNi) - out of the Greek nickeliferrous ores. The whole FeNi production is being exported.

LARCO presently occupies in all its activities 1.200 employees and workers and is very well known among European stainless steel producers for the quality of its products and the best after sales services provided to them.

The company's activities implement and efficiently operate an Integrated Management System that fully meets the requirements of ISO 9001: 2008, OHSAS 18001: 2007 and ISO 14001: 2004.

LARCO's activities are widely distributed allover Greece: Metallurgical Plant for the ferronickel production at Larymna Fthiotida, Mines at Viotia, Euboia and Kastoria and a Lignite Mine at Servia Kozani. The coordination of these activities is performed by the Headquarters in Athens.



MaTecK Material-Technologie & Kristalle GmbH

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MaTecK Material-Technologie & Kristalle GmbH

MaTecK GmbH, located in Germany, is a leading producer and supplier of high-tech research materials as follows:

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Furthermore MaTecK develops crystals and material samples with previously not tested compositions mainly according to customers' requirements. Please find more information on our web-site: www.mateck.com



M.J PRINIOTAKIS S.A.I.C

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M.J. PRINIOTAKIS S.A.I.C

(Official distributor of struers, Denmark & Phenom world, Netherlands) Stand 13

M.J. PRINIOTAKIS S.A.I.C came into existence in the year 1969, initially, serving as a distributor of a small number of Manufacturing Houses from Europe, U.S.A. and far East areas on exclusive basis. The company's goal has been the importation, distribution and support of high quality scientific apparatuses direct in the Research, Industrial, Electronic and Medical Sector. Until 1985, M.J. PRINIOTAKIS SAIC had become a Market Leader in the Greek market. In order to serve the above sectors, the company has established three full strength sales departments consisting of University Degree Diploma specialists. Through its specialized attention on all the market sectors, the company managed to grow and expand during these years by having exclusive arrangements with world's leading manufacturers in many fields, like Struers (Denmark) in the field of Materialographic Equipment and Consumables and Phenom World (Netherlands) in the field of Desktop Scanning Electron Microscopy (SEM). Today our company is on the peak of its growth cycle with important annual revenues through sales all over Greece, Cyprus and Balkans.



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MICRESS® c/o ACCESS e.V.

MICRESS® - the MICRostructure Evolution Simulation Software – allows for the calculation of microstructure formation in metallurgical systems. The software is developed, maintained and distributed by ACCESS e.V., a non-profit research center at the RWTH Aachen University of Technology.

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Motor Oil Hellas Corinth Refineries S.A

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Motor Oil Hellas Corinth Refineries S.A Stand 10

MOTOR OIL (HELLAS) CORINTH REFINERIES S.A. (MOH) was founded in 1970 and started operating its refinery in 1972.

MOTOR OIL is the largest private industrial complex in Greece and among the top refineries in Europe in terms of complexity (11.5 according to Nelson Complexity Index). It can process crude oil of various characteristics and produce a full range of petroleum products, serving major petroleum marketing companies in Greece and abroad. Additionally, the refinery of Motor Oil is the only one that produces base oils in Greece.

The annual distillation capacity of the refinery has reached 185,000 bbl/day. It has a storage capacity of 2.5 million cubic meters, modern port facilities for tanker docking suitable for tankers up to 450,000 tons DWT and state of the art truck loading terminal which can serve up to 220 road tankers per day.

Since 2001, the company is listed in the Athens Stock Exchange, and is a constituent of the FTSE/ATHEX LARGE CAP INDEX, the ATHEX COMPOSITE INDEX, and of other sectoral indices. Furthermore, since May 2006 the company is a constituent of the MSCI GREECE INDEX (Morgan Stanley Capital International).



N. ASTERIADIS S.A.

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N. ASTERIADIS S.A.

N. ASTERIADIS S.A., successor of NICOLAOS ASTERIADIS, established in 1955, is the older supplier of scientific instruments in Greece.

The company is today market leaders in Greece, in the fields of Electron Microscopes with JEOL and Analytical Instruments with SHIMADZU.

Company's policy is to guarantee the continuous improvement of the quality of the offered products and services, through which we try to satisfy the growing requirements of our customers in order to ensure the satisfaction of our enterprising targets.

The high level of the scientific and technical education of company's personnel, as well as their continuous training in the new developments in technology, the fair wages system of the company, the meritocratic conditions and the pleasant working environment guarantee the high sense of responsibility possessed by its human resources, which results in the prompt, reliable and high quality service of our customers and the polite facing of their every requirement.



NanoMEGAS SPRL

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NanoMEGAS SPRL

NanoMEGAS was created in 2004 by a team of scientists and experts in the field of electron crystallography and catalysis, and was the first to commercialize in 2004 a universal precession device for TEM.

Today as a result of our developments, precession diffraction / electron crystallography applications are present in almost every major electron microscopy /X-Ray crystallography scientific congress, with more than 400 publications (2004-2017) from various laboratories worldwide.

NanoMEGAS precession diffraction related instrumentation is actually present in more than 130 Laboratories all over the world. Our **ASTAR** device provides orientation and phase maps at 1-3 nm resolution (FEG-TEM) for a variety of materials without any need of particular specimen preparation. Precession diffraction can be also very useful in order to obtain **STRAIN** maps at 2-4 nm resolution with FEG-TEM, providing extremely important information for materials scientists. The recently developed **TOPSPIN** platform allows the user to perform advanced analytical precession diffraction experiments with the TEM.

NANOVEA'

NANOVEA

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NANOVEA

Nanovea began designing and manufacturing instruments after years of experience in providing solutions for profilometry, mechanical and tribology applications. Firmly aligned with its vision, Nanovea aims to simplify advanced measurement technology to stimulate materials engineering for the common good. Ease of use, advanced automation and the dedication to superior accuracy are the driving forces behind Nanovea's full range of Profilometers, Mechanical Testers and Tribometers. Thousands of clients rely on Nanovea for accurate solutions, technically superior instruments, experienced assistance and comprehensive laboratory services. Nanovea is Today's Standard for Tomorrow's Materials.

NETZSCH

NETZSCH-Gerätebau GmbH

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NETZSCH-Gerätebau GmbH Stand 09

The NETZSCH Group is a mid-sized, family-owned German company engaging in the manufacture of machinery and instrumentation with worldwide production, sales, and service branches. The three Business Units – Analyzing & Testing, Grinding & Dispersing and Pumps & Systems – provide tailored solutions for highest-level needs. Over 3,000 employees at 163 sales and production centers in 28 countries across the globe guarantee that expert service is never far from our customers.

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Novaspider

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Novaspider Stand 19

Novaspider is located at the CIC nanoGUNE facilities in San Sebastian, Basque Country (Spain). We provide innovative and advanced tools to produce 3D electrospun nanofibers for scientific research. Our technology has been developed with the expertise of nanoGUNE, a Research Center with more than 70 scientists from over 25 countries.

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Ovako AB

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Ovako AB Stand 18

Ovako develops high-tech steel solutions for, and in cooperation with, its customers in the bearing, transport and manufacturing industries. Our production is based on recycled scrap and includes steel in the form of bar, tube, ring and pre-components. Our steel makes our customers' end products more resilient and extends their useful life, ultimately resulting in smarter, more energy-efficient and more environmentally-friendly products.



Oxford Instruments NanoAnalysis

Halifax Road, High Wycombe, Bucks, HP12 3SE, UK tel:+44 1494 442255 e-mail: info@oxinst.com www.oxford-instruments.com

Oxford Instruments NanoAnalysis Stand 12

Oxford Instruments NanoAnalysis provides leading-edge tools that enable materials characterisation and sample manipulation at the nanometre scale. Used on electron microscopes (SEM and TEM) and ion-beam systems (FIB), our tools are used for R&D across a wide range of academic and industrial applications including semiconductors, renewable energy, mining, metallurgy, and forensics.





PPC S.A.-TRSC

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PPC S.A.-TRSC Stand 08

Testing, Research and Standards Center (TRSC) provides services that include tests in its laboratories, accreditations, research, inspections in the areas of PPC Group, instrument calibration, specialized studies, applications and analyses, specialized consultation studies as well as materials and equipment inspections for quality control of existing and under purchasing materials and equipment of all installations.

TRSC implements its services not only in its installations, but also on the products and on-site in the customers' installations, which range from the wider Public Sector to various industries.

The Center is accredited by the Hellenic Accreditation System (E.SY.D) according to ISO 17020 and ISO 17025 standards and is subject to regular thorough inspections which monitor not only its operation but also evaluate the tests and inspections it carries out, in terms of reliability and accuracy of their measurements.

KDEP employs high-caliber scientific staff, mainly coming from the Engineering and Exact Sciences fields.



SIDENOR S.A., Steel Industry

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- Merchant bars
- Steel balls for grinding
- THN Mining profiles
- Boron flats
- Welding products
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Thermo-Calc Software AB Stand 02

The company Thermo-Calc Software AB was founded in 1997 as an offspring from the department of Materials Science and Engineering at KTH, Stockholm, Sweden. The mission of Thermo-Calc Software is to develop and supply software, databases and services for technical calculations involving thermo-dynamics, diffusion and precipitation. Today, we have a proven track record from more than 1,000 sites used in 70+ countries by industry, government and academia for aerospace, automotive, energy, manufacturing, primary metals and more.

The head office is based in Sweden with a subsidiary in the U.S. Thermo-Calc Software has also a network of local sales and marketing representatives worldwide.



The Minerals, Metals & Materials Society (TMS)

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TMS Stand 05

The Minerals, Metals & Materials Society (TMS) is an international, member-driven, professional society that connects minerals, metals, and materials scientists and engineers around the world.

TMS creates networking, publication, and professional development opportunities by convening international conferences, publishing books and journals, administering awards, conducting courses, and convening the professional community to address issues of common concern for the professions it serves.

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TZIOLA Publications

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Stand 14

TZIOLA Publications is a Greek leading Publishing House founded in Thessaloniki in 1978, having as main goal the enrichment of the educational field and the scientific knowledge in Greece.

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ZEISS Stand 16

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EUROfusion

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EUROFusion

EUROfusion, the 'European Consortium for the Development of Fusion Energy', manages and funds European fusion research activities on behalf of Euratom.

Thirty members*, representing 26 European Union member states plus Switzerland and Ukraine, signed the agreement of the EUROfusion consortium. In addition about 100 Third Parties** contribute to the research activities through the Consortium members. EUROfusion collaborates with Fusion for Energy (Spain) and intensively supports the ITER International Organization (France).

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- **The majority of Third Parties are Universities followed by laboratories and industry.



MDPI AG

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MDPI

MDPI (Multidisciplinary Digital Publishing Institute) is an academic open-access publisher with headquarters in Basel, Switzerland. Additional offices are located in Beijing and Wuhan (China), Barcelona (Spain) as well as in Belgrade (Serbia). MDPI publishes 179 diverse peer-reviewed, scientific, open access, electronic journals, including Molecules (launched in 1996; Impact Factor 2.861), the International Journal of Molecular Sciences (launched in 2000; Impact Factor 3.226), Sensors (launched in 2001; Impact Factor 2.677), Marine Drugs (launched in 2003; Impact Factor 3.503), Energies (launched in 2008; Impact Factor 2.262), Viruses (launched in 2009; Impact Factor 3.465), Remote Sensing (launched in 2009; Impact Factor 3.244) and Metals (launched in 2011; Impact Factor 1.984). Our publishing activities are supported by more than 12,800 active scientists and academic editors on our journals' international editorial boards, including several Nobelists. More than 216,400 individual authors have already published with MDPI. MDPI.com receives more than 4.2 million monthly webpage views.



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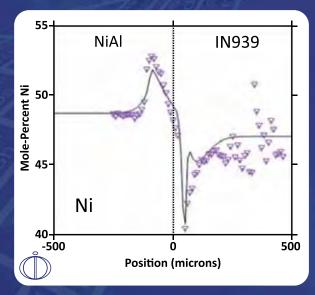
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Mapped diagram for M42 high speed steel

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Diffusion in ordered phases

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- 1. Selected as a highlighted presentation: New extensions for the efficient development of CALPHAD-based ICME-tools: Development of property models for martensitic steels by Dr.-Ing. Ralf Rettig.
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